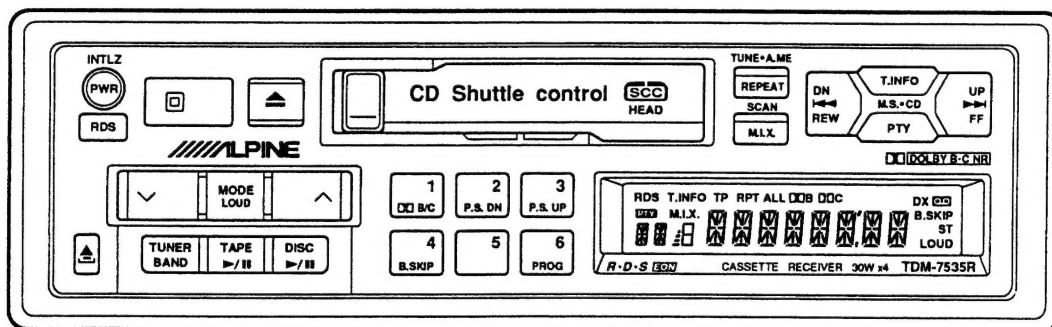


//////ALPINE[®] SERVICE MANUAL

FM/MW/LW/RDS Cassette Receiver

CD Shuttle Controller

- For the cassette deck mechanism parts (GR75H110/120) of this model, refer to the Service Manual • GR/GR-Y Series (68P20504W07)



TDM-7531R/TDM-7532R
TDM-7535R

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Spare Schematic Diagram Inserted.

Specifications

FM RADIO

Intermediate Frequency	10.7±0.1MHz
Frequency Range	87.5~108MHz
Usable Sensitivity (Mono, 30dB S/N, at 98.1MHz)	17.2dBf
-3dB Limiting Sensitivity (at 98.1MHz)	19.2dBf
S/N Ratio (Stereo, at 98.1MHz)	56dB
Image Rejection (at 106.1MHz)	40dB
IF Rejection (at 90.1MHz)	60dB
Distortion (Input 60dB μ , at 98.1MHz)	1%
Frequency Response (Ref. 400Hz, at 98.1MHz)	100Hz : 0±3dB 10kHz : -12±3dB
Stereo Separation (1kHz, at 98.1MHz)	20dB
PS Sensitivity (at 98.1MHz)	36.2dBf
TP Sensitivity (at 98.1MHz)	36.2dBf

MW RADIO

Intermediate Frequency	450kHz
Frequency Range	531~1,602kHz
Usable Sensitivity (20dB S/N, at 999kHz)	35dB
S/N Ratio (at 999kHz)	44dB
Image Rejection (at 1,404kHz)	50dB
IF Rejection (at 603kHz)	60dB
Distortion (at 999kHz)	1.5%
Frequency Response (Ref. 400Hz, at 999kHz)	100Hz : -3±4dB 4kHz : -12+6, -12dB

LW RADIO

Intermediate Frequency	450kHz
Frequency Range	153~281kHz
Usable Sensitivity (20dB S/N, at 216kHz)	41dB
S/N Ratio (at 216kHz)	42dB
Image Rejection (at 270kHz)	40dB
IF Rejection (at 162kHz)	50dB
Distortion (at 216kHz)	1.5%
Frequency Response (Ref. 400Hz, at 216kHz)	100Hz : -3±4dB 4kHz : -12+6, -12dB

TAPE PLAYER

Wow & Flutter (JIS, WRMS/MTT-111N)	0.2%
Tape Speed (MTT-111N)	4.76cm/sec.+3 to -1%
S/N Ratio (MTT-212N)	Dolby OFF : 52dB DOLBY B NR : 60.5dB (□, △) DOLBY C NR : 67dB (△)
Distortion (MTT-118N)	2%

In Case of Difficulty

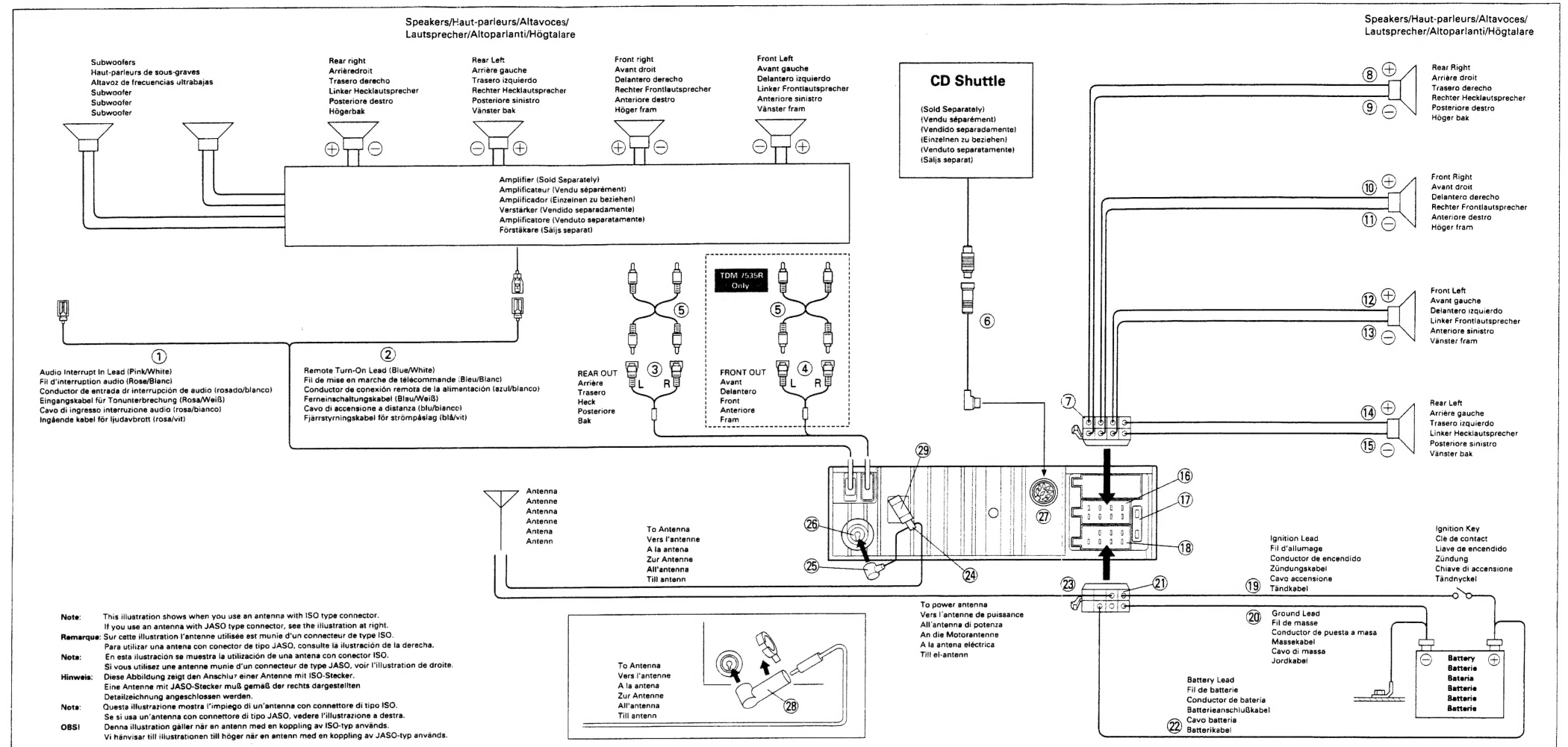
English

Symptom/Symptôme/Sintoma	Cause and Solution
CD Shuttle not functioning./Le changeur CD ne fonctionne pas./El cambiador de discos compactos no funciona.	<ul style="list-style-type: none"> Out of operating temperature range +50°C (+120°F) for CD. <ul style="list-style-type: none"> Allow the car's interior (or trunk) temperature to cool.
CD playback sound is wavering./Le son de lecture de CD est déformé./El sonido de reproducción de un disco compacto oscila.	<ul style="list-style-type: none"> Moisture condensation in the CD Module. <ul style="list-style-type: none"> Allow enough time for the condensation to evaporate (about 1 hour).
Unable to fast forward or backward./Avance rapide ou inversion impossibles./El disco no avanza ni retrocede.	<ul style="list-style-type: none"> The CD has been damaged. <ul style="list-style-type: none"> Eject the CD and discard it; using a damaged CD in your unit can cause damage to the mechanism.
Sound skips due to vibration./Pertes de son dues à des vibrations./El sonido salta debido a las vibraciones.	<ul style="list-style-type: none"> Improper mounting of the CD Shuttle. <ul style="list-style-type: none"> Securely re-mount the CD Shuttle. Disc is very dirty. <ul style="list-style-type: none"> Clean the disc. Disc has scratches. <ul style="list-style-type: none"> Change the disc.
Sound skips without vibration./Pertes de son non dues à des vibrations./El sonido salta sin haber vibraciones.	<ul style="list-style-type: none"> Dirty or scratched disc. <ul style="list-style-type: none"> Clean the disc; damaged discs should be replaced.
Single (8 cm) disc does not play./Impossible de reproduire un CD de 8 cm./No es posible reproducir un disco sencillo (8 cm).	<ul style="list-style-type: none"> Single CD adaptor is not used. <ul style="list-style-type: none"> Attach a single CD adaptor (recommended by Alpine) to the single disc and insert into the CD magazine.

English

Indication/Indication/Indicación	Cause and Solution
---	<ul style="list-style-type: none"> Protective circuit is activated due to high temperature. <ul style="list-style-type: none"> The indicator will disappear when the temperature returns to within operation range.
ERROR-01	<ul style="list-style-type: none"> Malfunction in the CD Shuttle. <ul style="list-style-type: none"> Consult your Alpine dealer. Press the magazine eject button and pull out the magazine. Check the indication. Insert the magazine again. If the magazine cannot be pulled out, consult your Alpine dealer. Magazine ejection not possible. <ul style="list-style-type: none"> Press the magazine eject button. If the magazine does not eject, consult your Alpine dealer.
ERROR-02	<ul style="list-style-type: none"> A disc is left inside the CD Shuttle. <ul style="list-style-type: none"> Press the EJECT button to activate the eject function. When the CD Shuttle finishes the eject function, insert an empty CD magazine into the CD Shuttle to receive the disc left inside the CD Shuttle.
NO MAGZN	<ul style="list-style-type: none"> No magazine is loaded into the CD Shuttle. <ul style="list-style-type: none"> Insert a magazine.
NO DISC	<ul style="list-style-type: none"> No indicated disc. <ul style="list-style-type: none"> Choose another disc.

Connections/Anschlüsse/Connexions/Collegamenti/Conexiones/Anslutningar

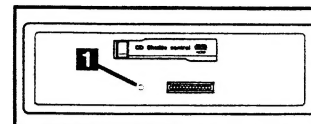
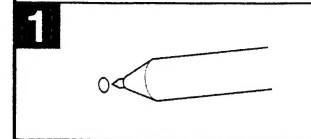



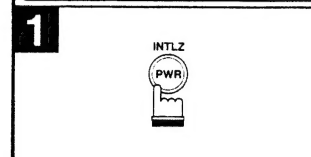
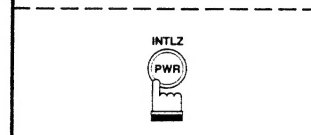
- Audio Interrupt In Lead (Pink/White) (TDM-7535R only)
- Remote Turn-On Lead (Blue/White)
Connect this lead to the remote turn-on lead of your amplifier or signal processor.
- Rear Output RCA Connectors
RED is right and WHITE is left.
- Front Output RCA Connectors (TDM-7535R only)
RED is right and WHITE is left.
- RCA Extension Cable (Sold Separately)
- DIN Extension Cable (Sold Separately)
NOTE:
If the DIN Extension cable supplied with the CD Shuttle does not have an "L" shaped connector, connection may be hindered at certain installation locations. In this case, purchase a 491002 Adaptor (sold separately).
- ISO Connector (Speaker Output, Female)
- Right Rear (+) Speaker Output Lead (Violet)
- Right Rear (-) Speaker Output Lead (Violet/Black)
- Right Front (+) Speaker Output Lead (Grey)
- Right Front (-) Speaker Output Lead (Grey/Black)
- Left Front (+) Speaker Output Lead (White)
- Left Front (-) Speaker Output Lead (White/Black)
- Left Rear (+) Speaker Output Lead (Green)
- Left Rear (-) Speaker Output Lead (Green/Black)
- ISO Connector (Speaker Output, Male)

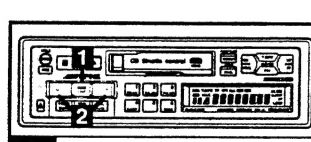
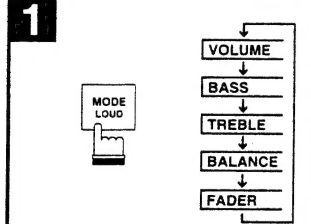


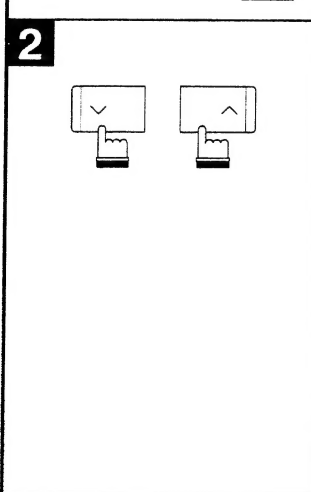


- Fuse (10A)
- ISO Power Supply Connector (Male)
- Switched Power Lead (Ignition) (Red)
Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+) 12V only when the ignition is turned on or in the accessory position.
- Ground Lead (Black)
Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.
- ISO Power Supply Connector (Female)
- Battery Lead (Yellow)
Connect this lead to the positive (+) post of the vehicle's battery.
- Power Antenna Lead
When loaded with a power antenna, connect to the +B terminal of the power antenna.
- Hook (Small)
- ISO Antenna Plug
- Antenna Receptacle
- DIN Connector
Connect this to the DIN connector on the CD Shuttle.
- JASO/ISO Antenna Adaptor (Included)
- Hook (Large)

Basic Operation

English

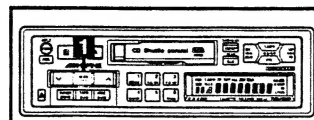
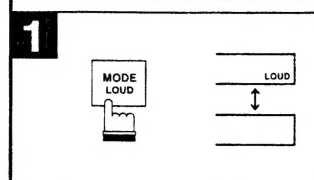
	Initial System Start-Up
1 	<p>When operating the unit for the first time after installation or after the vehicle's battery has been disconnected and reconnected, set the volume level to its minimum, then remove the detachable front panel. Press the Reset switch with a ball-point pen or any other pointed object.</p>

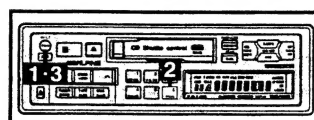
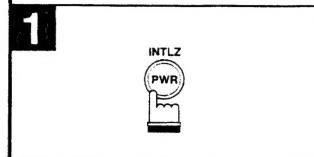
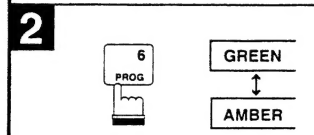
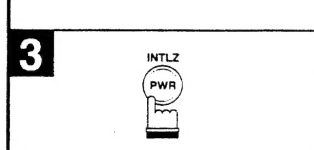
	Turning Power On and Off
1 	<p>Press the PWR button to turn on the unit.</p> <p>Note: The unit can be turned on by pressing any button except the eject button or by inserting a cassette tape.</p>
	<p>Press the PWR button again to turn off the unit.</p>
	<p>Note: Only for the TDM-7535R, the operation indicator blinks when any operational button is pressed to indicate that the unit has recognized the pressing of the button.</p>

	Adjusting Volume/Bass/Treble/Balance/Fader
1 	<p>Press the MODE button repeatedly to choose the desired mode.</p> <p>Note: If the  or  button is not pressed in 5 seconds after selecting the BASS, TREBLE, BALANCE and FADER modes, the unit automatically sets in the VOLUME mode.</p>
2 	<p>Press the  and  buttons until the desired sound is obtained in each mode.</p> <p>Notes:</p> <ul style="list-style-type: none"> These buttons on the TDM-7535R have a "Dual Speed" function. Pressing lightly will change the level slowly. Pressing the buttons harder will change the level quickly. The settings of the Bass and Treble will be individually memorized for each source (FM, MW, LW, Tape and CD) until the setting is changed. In case that the Equalizer is connected, the Bass and Treble are adjusted on the Equalizer.

Basic Operation

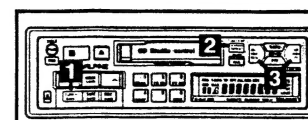
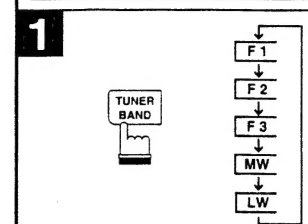
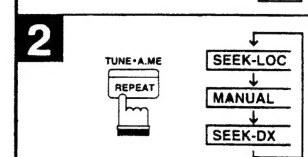
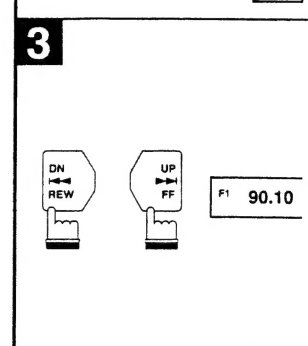
English

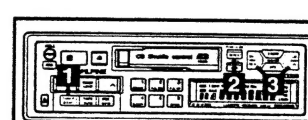
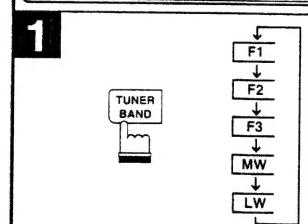
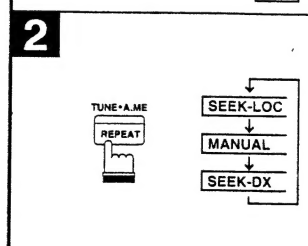
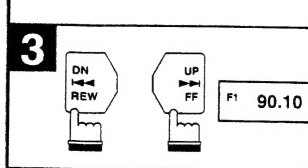
	Turning Loudness On/Off
1 	<p>Loudness introduces a special low- and high-frequency emphasis at low listening levels to compensate for the ear's decreased sensitivity to bass and treble sound.</p> <p>Press the LOUD button for at least 2 seconds to activate or deactivate the loudness mode.</p>

	Changing Lighting Colour (TDM-7535R only)
1 	<p>Press the POWER button for at least 2 seconds.</p>
2 	<p>Press the Preset 6 button to change the lighting colour between green and amber.</p>
3 	<p>Press the POWER button to set the lighting colour.</p>

Radio Operation

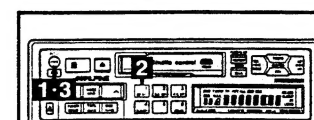
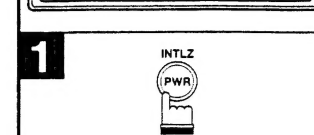
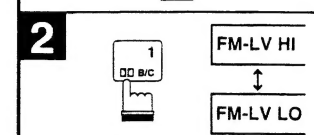
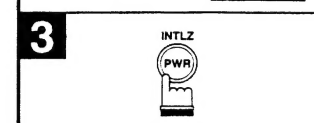
English

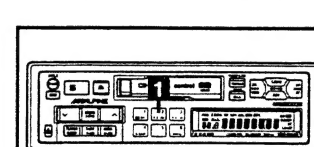
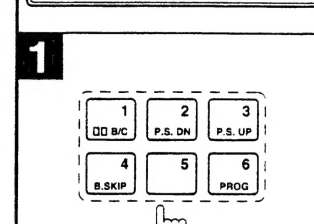
	Manual Tuning
1 	<p>Press the TUNER BAND button repeatedly until the desired radio band is displayed.</p>
2 	<p>Press the TUNE+ A.M.E. button repeatedly until "MANUAL" is displayed.</p> <p>Note: The initial mode is SEEK-DX.</p>
3 	<p>Press the DN or UP button to move downward or upward one step respectively until the desired station frequency is displayed.</p>

	Automatic Seek Tuning
1 	<p>Press the TUNER BAND button repeatedly until the desired radio band is displayed.</p>
2 	<p>Press the TUNE+ A.M.E. button to illuminate the DX indicator in the display. With the DX mode activated, both strong and weak stations will be tuned in the Auto-Seek operation.</p> <p>Press the TUNE+ A.M.E. button again to return to the local mode. The DX indicator will turn off and only strong stations will be tuned.</p>
3 	<p>Press the DN button or UP button to automatically seek a station downward or upward respectively.</p>

Radio Operation

English

	Adjusting FM Signal Level
1 	<p>If the difference in volume levels between the FM station and the tape player is great, you can adjust the FM signal level to make the difference smaller.</p>
2 	<p>Press the PWR button for at least 2 seconds.</p>
3 	<p>Press the Preset 1 button to select the desired signal level.</p>

	Manual Storing of Station Presets
1 	<p>1. Tune in the desired radio station you wish to store in the preset memory.</p> <p>2. Press any one of the preset buttons (1 through 6) for at least 2 seconds until the frequency display blinks.</p> <p>3. Press the preset button into which you wish to store the station while the display is blinking (within 5 seconds). The display changes from blinking to steady lighting indicating that the station has been memorized. The preset number is also displayed.</p> <p>4. Repeat the procedure to store 5 other stations onto the same band. Use this procedure for other bands.</p>
	<p>A total of 30 stations can be stored in the preset memory (6 stations for each band: FM1, FM2, FM3, MW, LW). The RDS stations can be preset in the FM1, FM2 and FM3 bands only.</p> <p>Note: If a preset memory has already been set in the same preset location, it will be cleared and the new station will be memorized.</p>

Radio Operation

English

	Automatic Memory of Station Presets
<p>1</p>	<p>Press the TUNER BAND button until the desired radio band is displayed.</p>
<p>2</p>	<p>Press the TUNE+M.E button for at least 2 seconds. The display shows "A-MEMORY" for a second then changes the radio frequency during the auto memory operation. The tuner will automatically seek and store 6 strong stations in the selected band in order of signal strength. When the automatic storing has been completed, the tuner goes to the station stored in the preset location No. 1.</p>
	<p>Note: If no stations are stored, the tuner will return to the original station you were listening to before the auto storing procedure began.</p>

English

	Tuning to Preset Stations
<p>1</p>	<p>Press the TUNER BAND button repeatedly until the desired band is displayed.</p>
<p>2</p>	<p>Press the station preset button that has your desired radio station in memory. The display shows the preset number, band and frequency of the station.</p>

Cassette Player Operation

English

	Inserting/Ejecting Cassette Tape
<p>1</p>	<p>Insert a cassette tape into the slot with the open side facing right. When the cassette is loaded, the player automatically starts tape playback and indicates "TAPE" in the display.</p>
<p>2</p>	<p>Press the Eject button when you want to eject the cassette tape.</p>
	<p>Notes:</p> <ol style="list-style-type: none"> When power is turned off or the front panel is removed, the full logic mechanism will automatically switch to the PAUSE mode. This protects the tape from being deformed by the pinch-rollers if left for long periods. Auto Metal When a metal cassette tape is inserted, the player automatically adjusts to the equalization for metal or any other high bias tape for optimum sound.

English

	Normal Play and Pause
<p>1</p>	<p>Insert a cassette (or press the TAPE button to switch from the tuner or CD Shuttle mode if a cassette is already inside the tape player). The player begins playback. The display shows "TAPE" and "Δ" or "∇" during tape playback to show the tape side being played. When the end of the tape is reached, the unit automatically stops and reverses the tape to play the other side of the tape.</p>
<p>2</p>	<p>Press the TAPE button to pause tape play. Press again to resume playback.</p>
<p>3</p>	<p>Press the Eject button to stop the tape play and eject the cassette. The tape-direction indicator disappears.</p>

Cassette Player Operation

English

	Dolby B/C NR (Noise Reduction) (TDM-7535R/ TDM-7532R only)
<p>1</p>	<p>Press the Dolby NR button in the tape mode to select the Dolby B NR or C NR to play a Dolby B NR or C NR encoded tape respectively. The B or C indicator appears to show your selection and the noise level becomes low. The Dolby C NR is available only on the TDM-7535R.</p>
<p>2</p>	<p>To deactivate the Dolby NR mode, press the Dolby NR button until the B and C indicators disappear.</p>
	Repeat Play (TDM-7535R/ TDM-7532R only)
<p>1</p>	<p>Press the REPEAT button to play back repeatedly the current programme being played. The RPT indicator appears and the programme will be played repeatedly.</p>
	<p>Press the REPEAT button to stop the repeat play. The RPT indicator disappears.</p>

English

	Fast Forward and Rewind
<p>1</p>	<p>Press the REW or FF button during tape play to fast rewind or forward the tape respectively. The tape side indicator (Δ or ∇) blinks and >> or << moves. When the end of the tape is reached in the rewind mode, the player stops automatically and begins playing from the beginning of the same side. When the end of the tape is reached in the fast forward mode, the player stops automatically and begins playing from the beginning of the opposite side.</p>
<p>2</p>	<p>Press the TAPE button to stop fast rewinding or forwarding to resume tape play. The tape side indicator changes to steady lighting.</p>
	Blank Skip (B.SKIP) (TDM-7535/ TDM-7532R only)
<p>1</p>	<p>Press the B.SKIP button during tape play to skip over blank portions of the tape lasting 15 seconds or longer. "B.SKIP" appears on the display.</p> <p>Press the B.SKIP button to cancel the blank skip mode. "B.SKIP" disappears from the display.</p>

Cassette Player Operation

English

	Scanning Programmes (TDM-7535R only)
<p>1</p>	<p>Press the SCAN button to play the first 10 seconds of each programme on the tape. "SCAN" appears on the display.</p> <p>Press the SCAN button to cancel the scanning when the desired programme is found.</p> <p>Note: The SCAN operation cannot detect blank sections of less than 4 seconds.</p>
	Manual Reverse
<p>1</p>	<p>Press the Preset 6 button during tape play to change the tape direction to play the other side of the tape. The tape side indicators (Δ and ∇) change to show which side of the cassette is being played.</p>
	Programme Sensor (P.S.) (TDM-7535R/ TDM-7532R only)
<p>1</p>	<p>Press the P.S. DN button once to return to the beginning of the current selection being played. If you wish to return to a selection further back, press repeatedly until the number of selections you would like to skip is shown in the display.</p> <p>The display will show PS-1 with the first press and will increase by one with each successive press up to PS-9. The tape indicator will blink showing the direction of your search.</p>
<p>2</p>	<p>Press the P.S. UP button once to advance to the beginning of the next selection. If you wish to advance to a selection further ahead, press repeatedly until the number of selections you would like to skip is shown in the display.</p> <p>The display will show PS+1 with the first press and will increase with each successive press up to PS+9. The tape indicator will blink showing the direction of your search during searching operation.</p>
<p>2</p>	<p>To stop the programme searching, press the tape button.</p> <p>Notes:</p> <ul style="list-style-type: none"> The programme sensor feature is functional in the tape play mode only. You can advance to the 9th (max.) programme or return to the 8th (max.) programme.

CD Shuttle Operation

English

Controlling CD Shuttle (Optional)

If an optional Alpine 6-disc CD Shuttle is connected to the 8-pin DIN connector of the TDM-7535R/TDM-7532R/TDM-7531R, you can control the CD Shuttle using the TDM-7535R/TDM-7532R/TDM-7531R.

Notes: The controls on the TDM-7535R/TDM-7532R/TDM-7531R for the CD operation are operative only when the CD Shuttle is interconnected with the TDM-7535R/TDM-7532R/TDM-7531R.

- The display example shows when playing the Track 5 on the Disc 3.
- Press the DISC button to activate the connected CD Shuttle. The display shows the disc number and track number.
- Press the Preset buttons to select the desired disc loaded in the CD Shuttle.

Press the DISC button to pause CD play. The display shows "PAU." To resume CD play, press again. The PAU indicator disappears.

CD Shuttle Operation

English

Repeat Play on Single Track or Entire Disc

Press the REPEAT button to display "RPT" or "RPT ALL" to play back repeatedly the current track being played or the entire disc selected.

Note: Single track cannot be repeated during M.I.X. play.

M.I.X. (Random) Play

Press and hold the M.I.X. button for at least 2 seconds during CD play or in the pause mode until the M.I.X. indicator appears. The display shows the disc number, elapsed time, "M.I.X.," and track number being played. The tracks on the disc will be played back in a random sequence.

After all the tracks on the disc have been played back, the player loads the next disc and begins a random sequence play on the next disc.

Press and hold the M.I.X. button for at least 2 seconds again until the M.I.X. indicator disappears to cancel the M.I.X. play.

RDS (Radio Data System)

English

The RDS (Radio Data System) is a radio information system using the 57 kHz subcarrier of regular FM broadcast. The RDS allows you to receive a variety of information such as traffic information, station names, and to automatically re-tune to a stronger transmitter that is broadcasting the same programme.

Setting RDS Reception Mode and Receiving

- Press and hold the INTLZ (Initialize) button for at least 2 seconds.
- Press repeatedly the Preset 3 button to select the AF (Alternative Frequencies) ON or OFF mode.
- Press the INTLZ button to activate the selected mode.
- Press the RDS button to activate the RDS mode.

RDS (Radio Data System)

English

Recalling Preset RDS Stations

- Press the RDS button to activate the RDS mode.
- Press the preset location button in which your desired RDS station is preset. If the preset station's signal is weak, the unit automatically searches and tunes to a stronger station in the AF (Alternative Frequencies) list.
- Press the same preset location button again to search again for a station in the PI (Programme Identification) list. If there are still no stations receivable in the area, the unit displays the frequency of the preset station and the preset indicator disappears. If the signal level of the Regional (Local) station being tuned becomes too weak to receive, press the same preset location button to tune in a Regional station in other district.

Note: For presetting the RDS stations, refer to the Radio Operation section of the Owner's Manual. The RDS stations can be preset in the F1, F2 and F3 bands only.

Music Sensor (M.S.) Skip

English

- Momentarily press the DN button once to return to the beginning of the current track. If you wish to return to the beginning of a track further back, repeatedly press until you reach the desired track. (The display example shows when you are playing the track No. 5 of the disc 3.)

Press the UP button once to advance to the beginning of the next track. If you wish to advance to a track further ahead, press repeatedly until the desired track is reached.

Note: The music sensor feature is functional in the play or pause mode.

Fast Forward and Backward

- Press and hold the DN or UP button to quickly move backward or forward respectively until you reach the desired portion.

Note: This feature works only in the CD playback mode.

English

- Press the DN or UP button to tune in the desired RDS station. When the station signal being received has become weak:
- A. In the AF ON mode the unit automatically re-tunes to a stronger station that carries the same programme.
- B. In the AF OFF/AF ON mode Press and hold the RDS button for at least 2 seconds to have the unit automatically search for a stronger station in the AF (Alternative Frequencies) list. If there is no AF station, the display shows "SEEK END."

Press the RDS button again to deactivate the RDS mode.

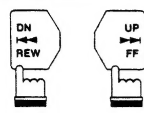
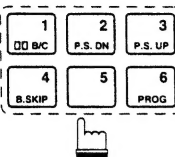
English

Receiving RDS Regional (Local) Stations

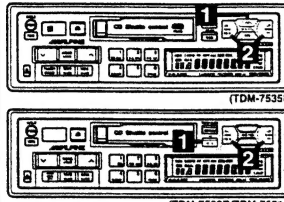
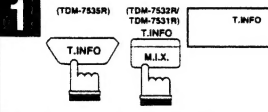
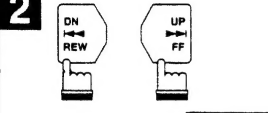
- Press and hold the INTLZ button for at least 2 seconds.
- Press the Preset 4 button to turn on or off the REG (Regional) mode. In the REG ON mode, the unit automatically keeps receiving the related local RDS station.
- Press the INTLZ button to activate the selected mode.
- Press the RDS button to activate the RDS mode.

RDS (Radio Data System)

English

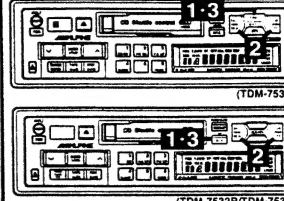
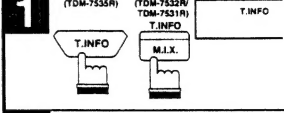
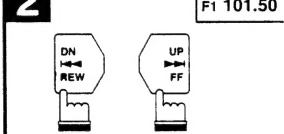
5 	<p>Press the DN or UP button to tune in the desired local (Regional) RDS station.</p>
6 	<p>Press repeatedly the preset location button corresponding to your desired station during reception of a Regional station to search for a receivable Regional station. Each pressing tunes in another receivable Regional station.</p>

English

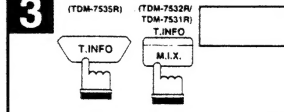
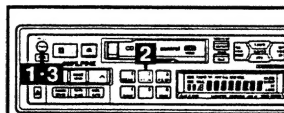
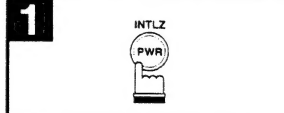
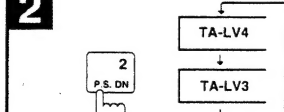
	<h3>Receiving Traffic Information</h3>
1 	<p>Press the T.INFO button to display the T.INFO indicator.</p>
2 	<p>Press the DN or UP button to select your desired traffic information station. When a traffic information station is tuned in, the TP indicator lights up.</p> <p>Traffic information is heard only when it is being broadcast. If traffic information is not being broadcast, the unit is set in the standby mode. When a traffic information broadcast begins, the unit automatically receives it, the display shows "TRF-INFO", and within 5 seconds the PS (Programme Service Name) being received appears.</p> <p>When traffic information broadcast is over, the unit will automatically set in the standby mode.</p> <p>Notes:</p> <ul style="list-style-type: none"> • If the traffic information broadcast signal falls below a certain level, the unit remains in the receiving mode for 1 minute. If the signal remains below a certain level for over 1 minute, the unit is set in the standby mode for the traffic information broadcast. • If you do not want to listen to the traffic information being received, lightly press the T.INFO button to skip that traffic information message. The T.INFO mode will remain in the ON position to receive the next traffic information message.

RDS (Radio Data System)

English

	<h3>Receiving Traffic Information While Playing Cassette or Radio</h3>
1 	<p>Press the T.INFO button until the T.INFO indicator appears.</p>
2 	<p>Press the DN and UP buttons to select a traffic information station if necessary.</p> <ul style="list-style-type: none"> • When a traffic information broadcast starts, the unit automatically mutes the cassette tape or the regular FM broadcast. • When the traffic information broadcast finishes, the unit automatically returns to the original source play before the traffic information broadcast began. • When traffic information stations cannot be received: <ul style="list-style-type: none"> In the tuner mode: When the TP signal can no longer be received, an alarm will be sounded after 1 minute. In the tape mode: When the TP signal can no longer be received, the traffic information station of another frequency will be selected automatically. <p>Note: The receiver is equipped with the EON (Enhanced Other Networks) function in order to keep track of additional alternative frequencies to the AF list. If the station being received does not broadcast the traffic information, the receiver automatically tunes in the related station that broadcasts the traffic information when it occurs.</p>

English

3 	<p>Press the T.INFO button to deactivate the Traffic Information mode.</p>
1 	<h3>Presetting Volume Level for Traffic Information</h3> <p>Press and hold the INTLZ button for at least 2 seconds.</p>
2 	<p>Press the Preset 2 button repeatedly until the desired volume level is obtained.</p>
3 	<p>Press the INTLZ button again to preset the volume level for the traffic information listening.</p> <p>When a traffic information broadcast starts, the unit automatically adjusts the volume to the preset level.</p>

RDS (Radio Data System)

English

<p>(TDM-7535R)</p> <p>(TDM-7532R/TDM-7531R)</p>	<h3>PTY (Programme Type) Tuning</h3>
<p>1</p> <p>(TDM-7535R) (TDM-7532R/TDM-7531R)</p>	<p>Press the PTY button (for at least 2 seconds for the TDM-7532R/TDM-7531R) to activate the PTY mode. The PTY (Programme Type) of the station being currently received will be displayed for 5 seconds.</p> <ul style="list-style-type: none"> If there is no receivable PTY broadcast, "NONE" will be displayed for 5 seconds. If no RDS station can be received, the display shows "NO RDS." <p>Note: If no button is pressed within 5 seconds after pressing the PTY button, the PTY mode will be automatically cancelled.</p>
<p>2</p>	<p>Press the DN and UP buttons within 5 seconds to choose the desired programme type while the PTY (programme type) is being displayed.</p>
<p>3</p> <p>(TDM-7535R) (TDM-7532R/TDM-7531R)</p>	<p>Press the PTY button within 5 seconds after selecting the programme type to start searching for a station in the selected programme type. The chosen programme type indicator blinks during searching and lights when a station is found.</p> <p>If no station is found, "NO PTY" will be displayed for 5 seconds.</p>
<p>4</p> <p>(TDM-7535R) (TDM-7532R/TDM-7531R)</p>	<p>Press the PTY button (for at least 2 seconds for the TDM-7532R/TDM-7531R) to cancel the PTY mode.</p>

English

RDS (Radio Data System)

English

	<h3>Priority PTY (Programme Type) (TDM-7535R ONLY)</h3> <p>This function allows presetting of a programme type such as music category, news, etc. You can listen to a programme in the preset programme type as the unit automatically gives priority to the preset programme type when it begins broadcasting, and interrupts the programme you are currently listening. This feature is functional when your unit is set to a mode other than the LW and MW.</p>
<p>1</p>	<p>Press and hold the PTY button for 2 seconds to activate the PRIORITY PTY mode. "PRIO PTY" is displayed for 2 seconds and then the program type for 5 seconds. The initial setting is "NEWS."</p> <p>Note: If no button is pressed within 5 seconds after pressing the PTY button, the PRIORITY PTY mode is automatically cancelled.</p>
<p>2</p>	<p>Press the DN or UP button within 5 seconds while "NEWS" is being displayed to choose a desired programme type. Then press and hold the PTY button for 2 seconds. The PRIORITY PTY function will activate.</p>
<p>3</p>	<p>Press and hold the PTY button for 2 seconds to activate the PRIORITY PTY mode again.</p> <ul style="list-style-type: none"> To change the program category, perform the step 2. To disable the PRIORITY PTY function, press the PTY button for less than 2 seconds. <p>Note: In the PRIORITY PTY function, unlike in the T.INFO function, the volume does not increase during operation.</p>

English

	<h3>Turning Emergency Alarm On or Off</h3>
<p>1</p>	<p>Press and hold the INTLZ button for at least 2 seconds.</p>
<p>2</p>	<p>Press the Preset 5 button repeatedly to select the PTY31 ON or PTY31 OFF mode. In the PTY31 ON mode, the unit will produce an alarming sound when the unit receives the PTY31 (Emergency Broadcast) signal.</p>

Disassembly Instructions

1. Removal of Nose Unit

- (1) Refer to the Owner's Manual (Part No. 68P61329W47).

2. Removal of Front Escutcheon

- (1) After removal of Assy., Face Plate and Top Cover, remove the Hooks (a) as shown in Figure 1

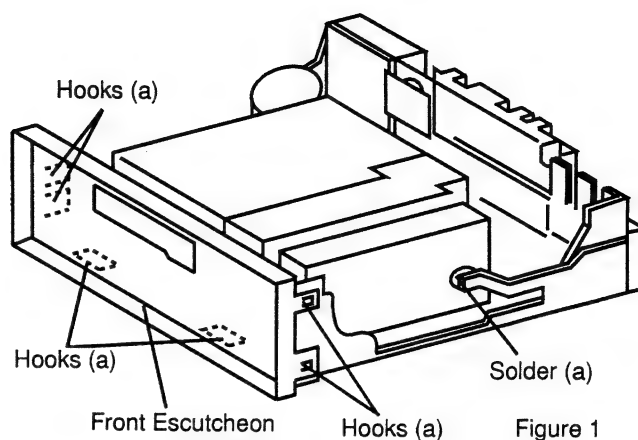


Figure 1

3. Removal of Cassette Deck

- (1) After removal of Front Escutcheon, remove three screws marked "○" and the Hook (b) as shown in Figure 2.
- (2) Disconnect one Connector from the Cassette Deck.

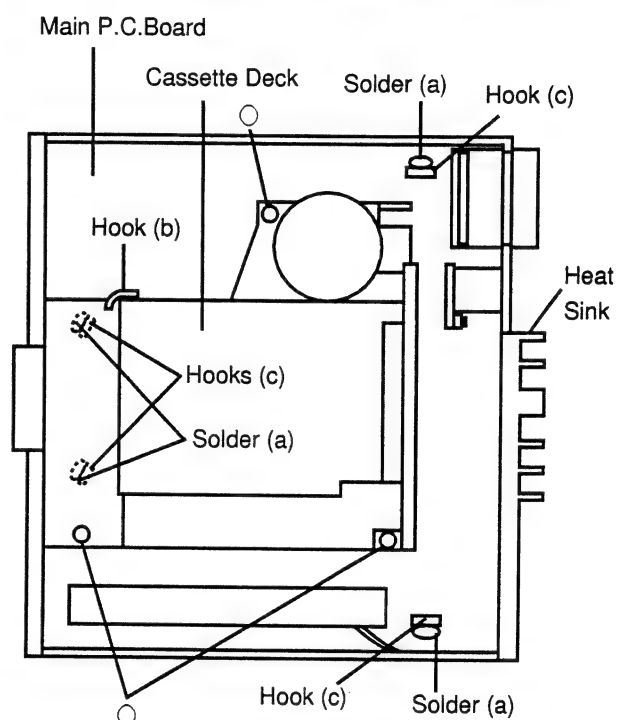


Figure 2

4. Removal of Main P.C.Board

- (1) Remove the four screws marked "●" as shown in Figure 3.
- (2) Remove the solder (a) and Hooks (c) as shown in Figure 1, 2.
- (3) Disconnect two Connectors from the Main P.C.Board.

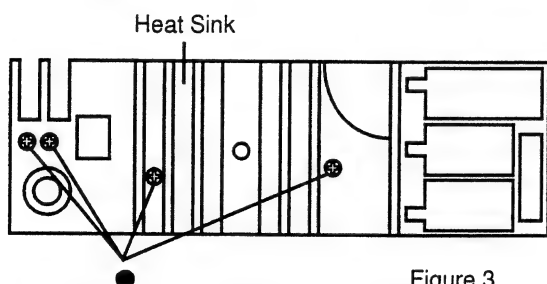


Figure 3

5. Removal of Front P.C.Board

- (1) After removal of Nose Unit, remove two screws marked "△" and the Hooks (d) as shown in Figure 4.
- (2) Remove the Hooks (e) as shown in Figure 4.

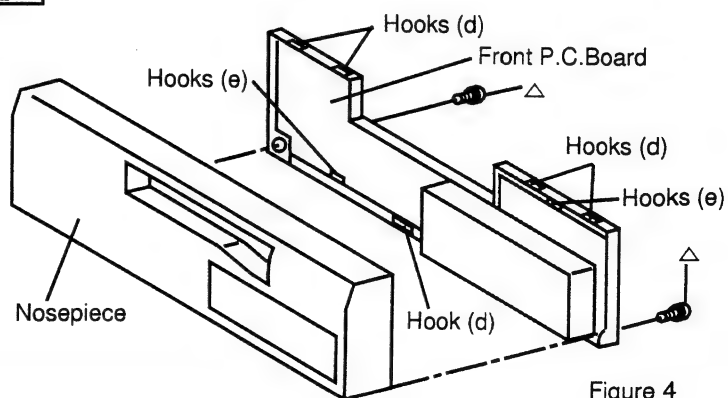
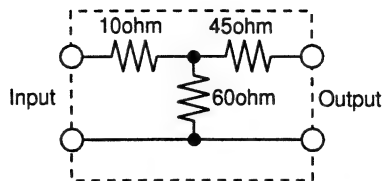


Figure 4

Adjustment Procedures

1. FM SECTION

(1) Dummy Antenna Circuit



For 50 ohm FM Signal Generator

Figure 5

(2) Connections

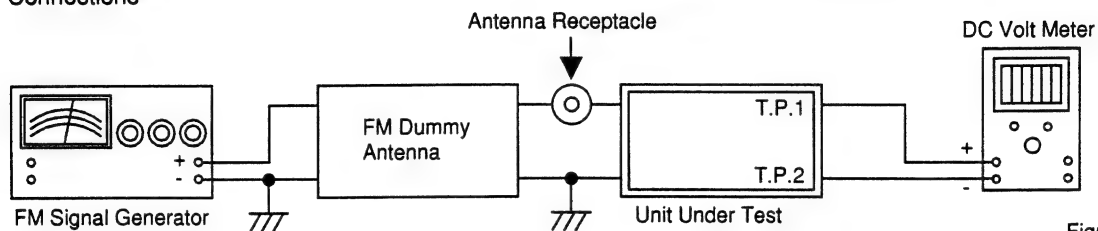


Figure 6

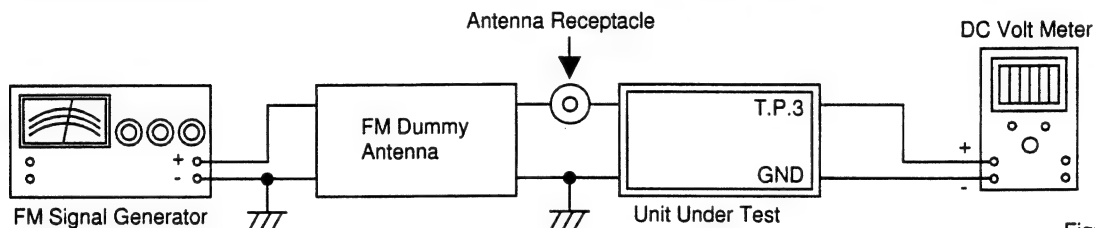


Figure 7

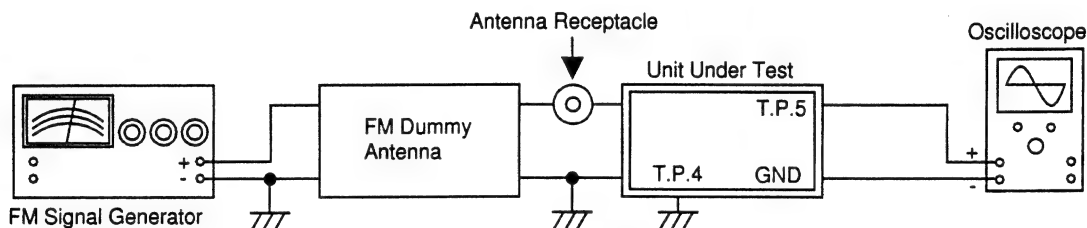


Figure 8

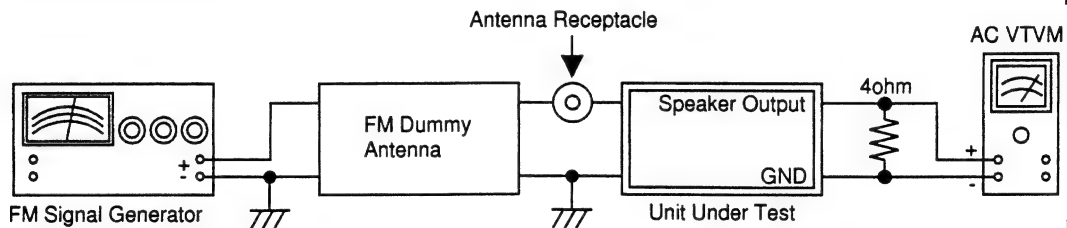


Figure 9

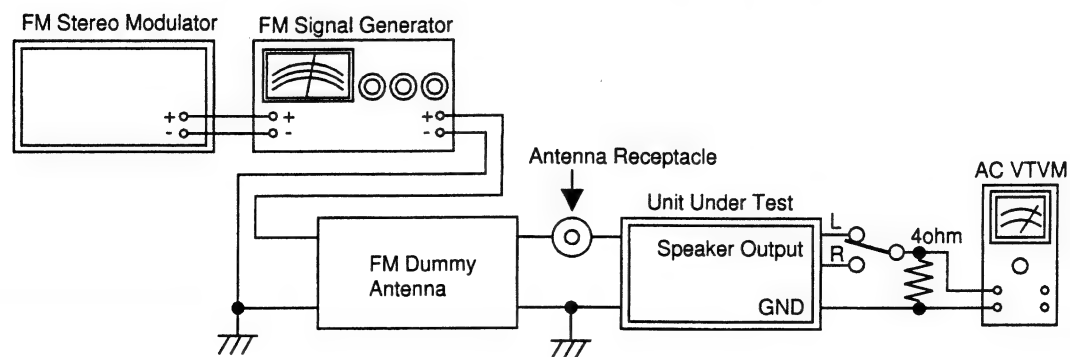
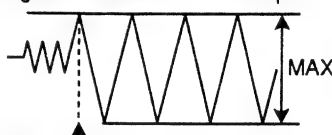


Figure 10

(3) Control Settings

Power Switch ON
 Fader Control Center Position
 Balance Control Center Position
 Treble / Bass Control.....Center Position
 Band Switch FM
 Others OFF

(4) Adjustment Procedures

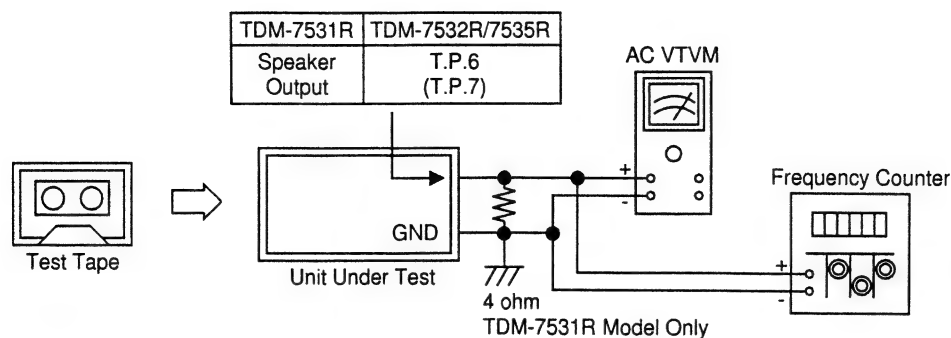
Step	Description		Connection	Signal Generator	Dial Control	Test Point	Adjustment
1	IF Adjustment		Figure 6	98.1MHz, 72dB (Mod. OFF)	98.1MHz	T.P.1 T.P.2	Adjust L2101 to $0 \pm 15\text{mV}$.
2	Signal Meter Adjustment		Figure 7	98.1MHz, 46dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	T.P.3	Adjust VR2101 to $3.5 \pm 0.1\text{V}$
3	Seek Stop Adjustment		Figure 8	98.1MHz, 30dB (Mod. OFF)	98.1MHz	T.P.4 T.P.5	Adjust VR2104 for the waveform changing to maximum output. Figure : Waveform of T.P.5 output.  Stop the adjust VR2104 at this time.
4	Noise Level Adjustment	(1)	Figure 9	98.1MHz, 72dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	Speaker Output	Adjust MAIN VOLUME (S411 (○□), S422 (○□), S418 (△), S428 (△)) to obtain 2V output. This value is 0dB.
		(2)	Figure 9	98.1MHz, -19dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	Speaker Output	Adjust VR2105 to $-25 \pm 3\text{dB}$ output at SG level minimum.
5	Stereo Blend Adjustment (Lch)		Figure 10	98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz, Stereo, Lch Only)	98.1MHz	Speaker Output	Adjust VR2102 for Lch and Rch output level difference to be $8 \pm 2\text{dB}$.
6	Stereo Separation Adjustment (Lch)		Figure 10	98.1MHz, 72dB (Mod. 1kHz, Dev. 36kHz, Stereo, Lch Only)	98.1MHz	Speaker Output	Adjust VR2103 for Rch output to be minimum, and confirm Lch and Rch output level difference is more than 20dB.
7	Stereo Blend Adjustment (Rch)		Figure 10	98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz, Stereo, Rch Only)	98.1MHz	Speaker Output	Proceed same adjustment under step 5.
8	Stereo Separation Adjustment (Rch)		Figure 10	98.1MHz, 72dB (Mod. 1kHz, Dev. 36kHz, Stereo, Rch Only)	98.1MHz	Speaker Output	Proceed same adjustment under step 6 by alternating Lch and Rch.

Note : ○ : For TDM-7531R Model Only,
 △ : For TDM-7535R Model Only,

□ : For TDM-7532R Model Only ,
 Others : Common.

2 TAPE PLAYER SECTION

(1) Connections



(2) Control Settings

Power Switch ON
 Fader Control Center Position
 Balance Control Center Position
 Treble / Buss Control Center Position
 Others OFF

(3) Adjustment Procedures

Step	Description	Test Tape	Connection	Test Point	Adjustment Point	Adjustment
1	Head Azimuth Adjustment	MTT-114NB (14kHz)	Figure 11	<div>○ Speaker Output</div> <div>□ T.P.6 (Lch)</div> <div>△ T.P.7 (Rch)</div>	Head Azimuth Adjustment Screws (Figure 12)	Adjust for Max. and same level output at Normal and Reverse positions.
2	Dolby Level Adjustment (TDM-7532R/7535R Model Only)	MTT-150 (400Hz)	Figure 11	<div>T.P.6 (Lch)</div> <div>T.P.7 (Rch)</div>	VR201 (Lch) VR202 (Rch)	Adjust for 245mV (□)/388mV(△) ± 1dB at T.P.6 (Lch) and T.P.7 (Rch).
3	Tape Speed Adjustment	MTT-111N (3kHz)	Figure 11	<div>○ Speaker Output</div> <div>□ T.P.6 (Lch) or T.P.7 (Rch)</div>	Tape Speed Adjustment (Figure 13)	Adjust for 2,970 to 3,090Hz at T.P.6 (T.P.7).

Note : ○ : For TDM-7531R Model Only,
 △ : For TDM-7535R Model Only,

□ : For TDM-7532R Model Only ,
 Others : Common.

Adjustment Locations

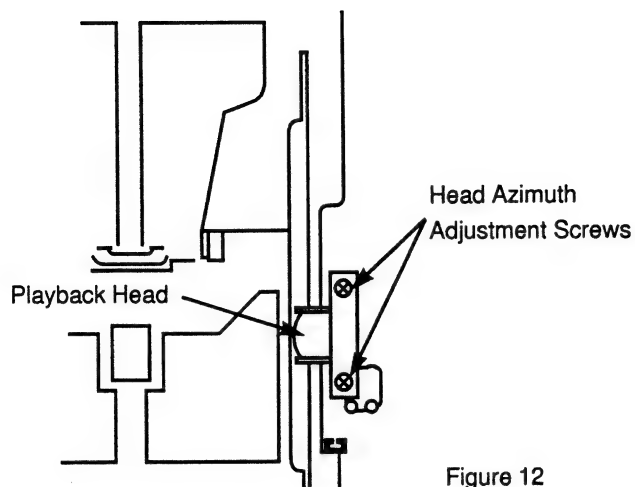


Figure 12

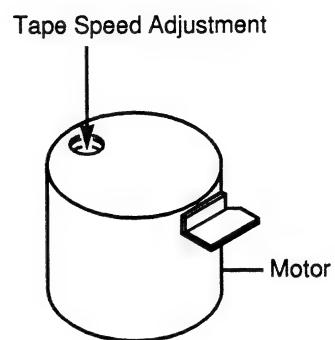
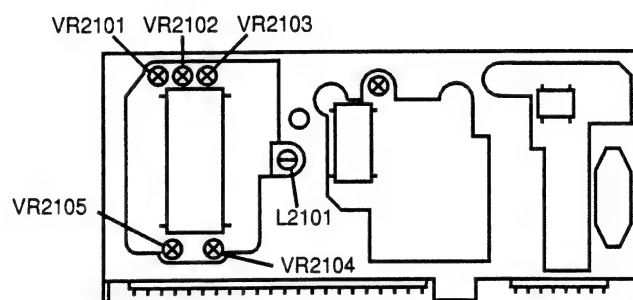


Figure 13



FM / MW/LW Tuner Unit (FE001)

Note : For the Adjustment parts (S411(○□), S422(○□), S418(△), S428(△), VR201, VR202) and Test Points, refer to the Parts Layout on P.C.Boards and Wiring Diagram.

Description of IC Terminal

45609W26 : IC501

No.	Symbol	I/O	Terminal Description
1	NOSE ON	I	Front panel detection terminal.
2	AV _{REF}	I	Reference voltage input terminal for A/D converter.
3	V _{DD}	—	V _{DD} terminal.
4			
5	AV REF OUT	O	Reference voltage output terminal to A/D converter.
6	PLAY SOL	O	Play Solenoid control signal output terminal in deck mechanism.
7	RF SOL	O	RF Solenoid control signal output terminal in deck mechanism.
8	EJECT SOL	O	Eject Solenoid control signal output terminal in deck mechanism.
9	MOTOR CONT	O	Determins rotation direction of motor in deck mechanism.
10	O. MOTOR	O	Determins start and stop of motor in deck mechanism.
11	FOR/REV	O	FOR/REV indicator output terminal.
12	O. FAST	O	Gain control signal output terminal to MS IC.
13	PACK IN	I	Switch to detect cassette is installed into cassette holder or not.
14	M.S.DET	I	Music ON/OFF switching signal input terminal.
15	GND	—	GND short.
16			
17			
18	AREA0	I	Initial setting input terminal.
19	AREA1		
20	TP ALARM	O	ALARM signal output terminal (at TP OFF ALARM).
21	NC	—	Open.
22	PWR IC ON	O	Stand-by control signal output terminal to Power IC.
23	POWER CONT	O	Power control signal output terminal to Audio line and lighting.
24	A.MUTE	O	Audio mute signal output terminal.
25	NC	—	Open.
26			
27			
28	IN INT	I	INT signal input terminal.
29	CHG D-OUT	O	BUS line output terminal to CD changer.
30	E.VOL. CLK	O	Serial clock data output terminal to Electrical Volume.
31	E.VOL. DATA	O	Serial data output terminal for Electrical Volume.
32	NC	—	Open.
33	GND	—	GND short.
34	NC	—	Open.
35	DOLBY C	O	Dolby C NR ON/OFF signal output terminal.
36	DOLBY B	O	Dolby B NR ON/OFF signal output terminal.
37	LCD CE	O	CE signal output terminal to LCD Driver.
38	DTS CE	O	CE signal output terminal to DTS microcomputer (IC504).

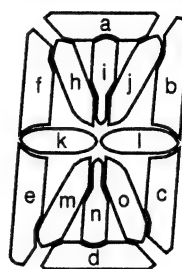
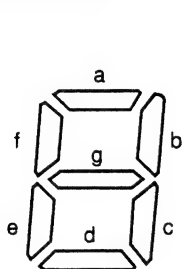
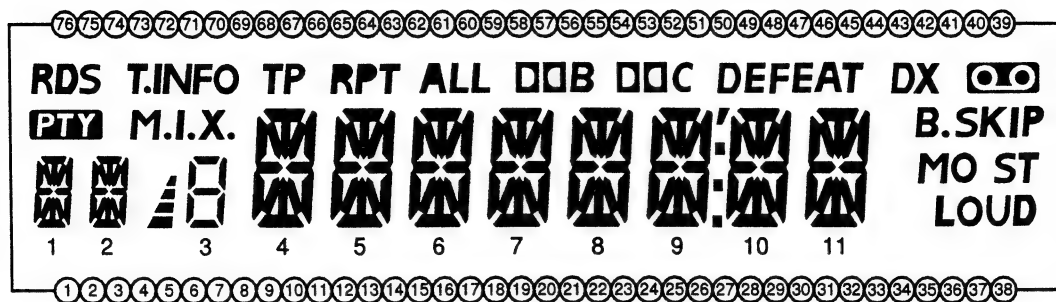
No.	Symbol	I/O	Terminal Description
39	DTS START	O	Data sync signal output terminal to DTS microcomputer (IC504).
40	NOSE POWER	O	Power control signal output terminal to Front panel.
41	LED IND	O	Action indicator output terminal.
42	LCD CLK	O	Clock signal output terminal to LCD Driver.
43	GRN/ORG	O	ILLUMI Control signal output terminal.
44	LCD DATA	O	Data output terminal to LCD Driver.
45	LCD INH	O	INH signal output terminal to LCD Driver.
46	DTS MUTE	I	Audio mute signal input terminal from DTS microcomputer (IC504).
47	ACC+5	I	ACC power supply detection terminal.
48	CHG D-IN	I	BUS line input terminal to CD changer.
49	REMOCON	I	Data input terminal from Remocon receiver.
50	DTS STATUS	I	Serial data input terminal from DTS microcomputer (IC504).
51	DTS CMD	O	Serial data output terminal to DTS microcomputer (IC504).
52	DTS SCK	O	Communication sync signal output terminal to DTS microcomputer (IC504).
53	BATT+5V	I	BATT detector terminal.
54	GND	—	GND short.
55			
56	NC	—	Open.
57	GND	—	GND short.
58	X1	I	Input terminal for system clock OSC.
59	X2	O	Output terminal for system clock OSC.
60	RESET	I	System reset signal input terminal.
61	GND	—	GND short.
7			
75			
76	PACK DOWN	I	Switch to detect cassette holder is moved down completely.
77	RUN DET	I	Signal showing take-up reel is rotating or not.
78	KEY-IN AD0	I	KEY input terminal.
79	KEY-IN AD1		
80	KEY-IN AD2		

75099W04 : IC504

No.	Symbol	I/O	Terminal Description
1	LW	O	LW band selection terminal.
2	LO/DX	O	Local/DX control terminal.
3	NC	—	Open.
4	AV _{SS}	—	GND potential terminal for A/D converter.
5	LPF SW	O	LPF time constant switching terminal at AF CHECK/SW.
6	IF MUTE	O	Mute signal output terminal at AF check.
7	AV _{REF1}	I	Reference voltage input terminal for A/D Converter.
8	PLL UP	—	Pull up terminal.

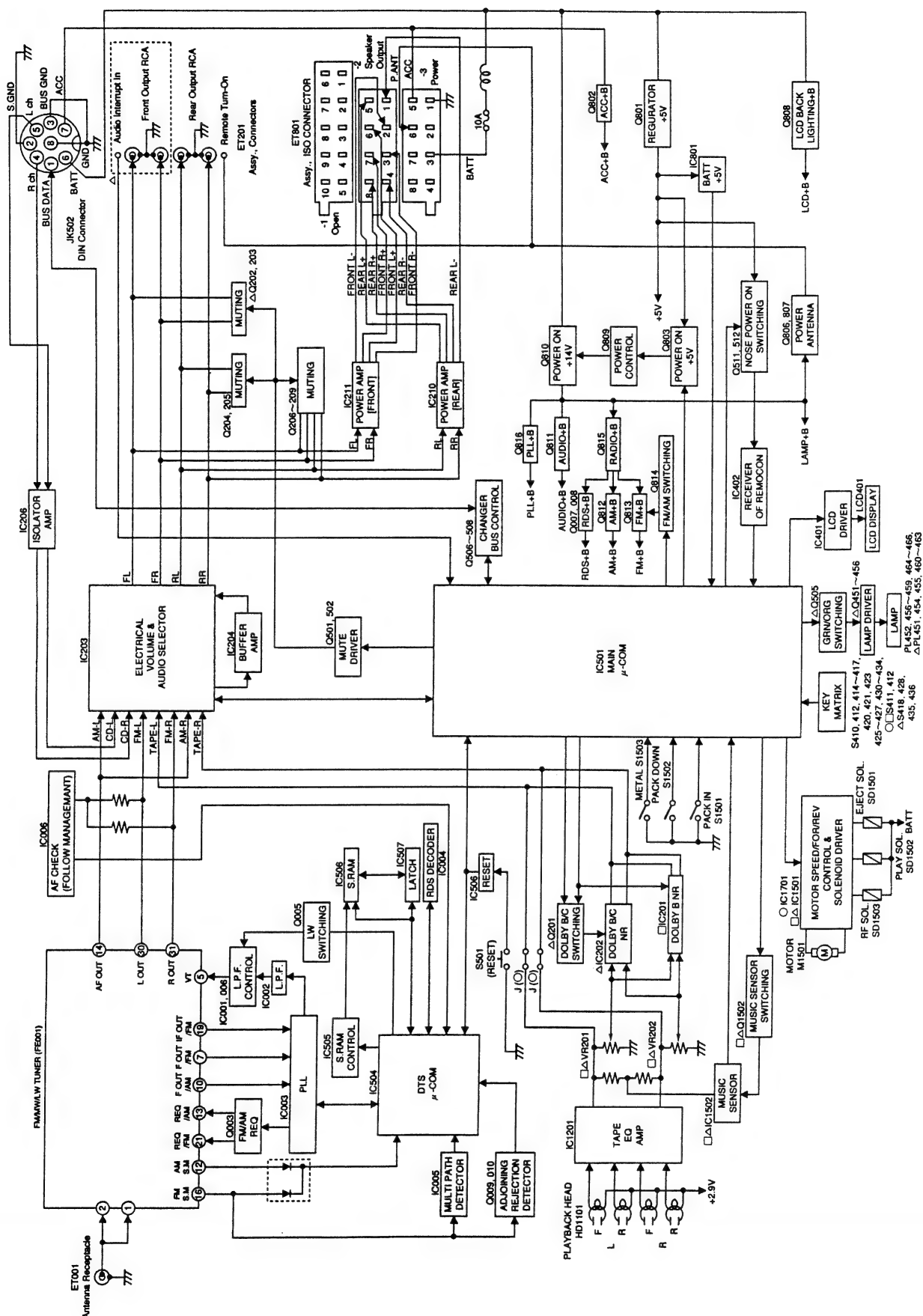
No.	Symbol	I/O	Terminal Description
9	NC	—	Open.
10			
11	PLL CLK	O	Clock output terminal to PLL.
12	PLL DATA	O	Data output terminal to PLL.
13	PLL CE	O	Data communication control signal output terminal to PLL.
14	DTS MUTE	O	Audio mute output terminal.
15	DTS START	I	DTS data start input terminal.
16	DTS CMD	I	Serial data input terminal from Main microcomputer (IC501).
17	DTS STATUS	O	Serial data output terminal to Main microcomputer (IC501).
18	DTS CLOCK	I	Communication data sync signal input terminal from Main microcomputer (IC501).
19	NC	—	Open.
32			
33	V _{SS}	—	GND potential terminal.
34	NC	—	Open.
57			
58	FM/AM	O	FM/AM power control terminal.
59	AUDIO IN	I	Audio xerox input terminal.
60	RESET	I	System reset input terminal.
61	RDS CLK	I	RDS clock input terminal.
62	RDS DATA	I	RDS data input terminal.
63	DTS CE	I	Terminal to make Main microcomputer (IC501) in stand-by status.
64	NC	—	Open.
66			
67	50K REF	O	L.P.F. swithing output terminal at RDS mode.
68	V _{DD}	—	Positive power supply terminal.
69	X2	O	Output terminal for system clock OSC.
70	X1	I	Input terminal for system clock OSC.
71	V _{SS}	—	GND short.
72	NC	—	Open.
73	PLL D-IN	I	Data input terminal from PLL.
74	AV _{DD}	—	Analog power supply terminal for A/D converter.
75	AV _{REF0}	I	Reference voltage input terminal for A/D converter.
76	S.METER	I	Signal meter input terminal.
77	ADJ-ON	I	Port detects adjoining rejection interference of station.
78	MULTI PATH	I	Port detects multi path interference of station.
79	ST	I	ST signal input terminal.
80	SD	I	Station detector signal input terminal for FM/AM (MW/LW).

LCD Display

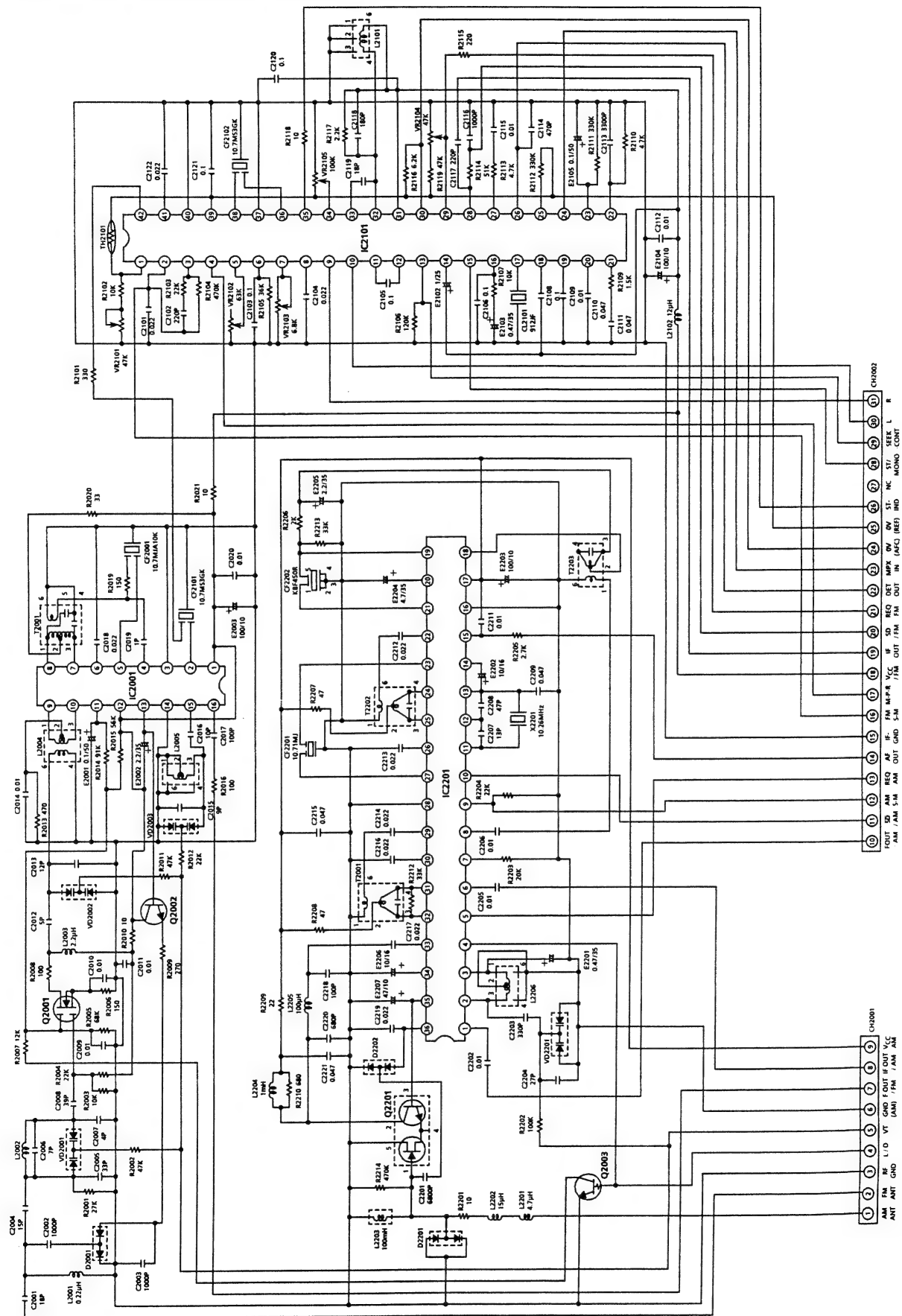


PIN No.	COM1	COM2	COM3	PIN No.	COM1	COM2	COM3
1				39			COM3
2				40		COM2	
3	1-h	1-k	1-m	41	COM1		
4	1-j	1-l	1-o	42		ST	LOUD
5	2-j	2-l	2-c	43	DX	B.SKIP	MO
6	3-l	3-g	3-e	44	11-b	11-c	11-d
7				45	11-j	11-l	11-o
8				46	11-a	11-i, 11-n	11-m
9				47	11-h	11-k	11-e
10				48	DEFEAT	11-f	10-c
11				49	10-j	10-i, 10-n	10-d
12				50	10-l	10-k	10-e
13				51			
14	5-b	5-l	5-o	52	9-a	9-b	9-c
15	6-h	6-k	6-e	53	9-f	9-k	9-m
16	6-a	6-i, 6-n	6-m	54	DDC	8-b	9-e
17	7-l	7-e	6-d	55	8-h	8-k	8-m
18	7-h	7-k	7-m	56	DDB	7-b	7-c
19	7-j	7-l	7-o	57	7-a	7-i, 7-n	7-d
20	8-l	8-e	8-d	58	ALL	6-b	6-c
21				59	6-j	6-l	6-o
22				60	RPT	6-f	5-c
23	8-a	8-i, 8-n	8-o	61	5-j	5-i, 5-n	5-d
24	8-j	8-l	8-c	62	5-a	5-h	5-m
25	9-h	9-i, 9-n	9-d	63	5-f	5-k	5-e
26	9-j	9-l	9-o	64	TP	4-b	4-c
27	10-a	10-h	10-m	65	4-j	4-l	4-o
28	10-b	10-l	10-o	66	4-a	4-i, 4-n	4-d
29				67	4-h	4-k	4-m
30				68	4-f	3-b	4-e
31				69	M.I.X.	3-a, 3-d	3-c
32				70	T.INFO	2-b	
33				71	2-a	2-i, 2-n	2-o
34				72	2-h	2-k	2-m
35				73	2-f	2-e	2-d
36				74	PTY	1-b	1-c
37				75	1-a	1-i, 1-n	1-d
38				76	RDS	1-f	1-e

Block Diagram



Tuner Schematic Diagram



MEMO

Parts Layout on P.C. Boards and Wiring Diagram (1/2)

1

2

3

4

5

Main P.C.Board (Component Side View)

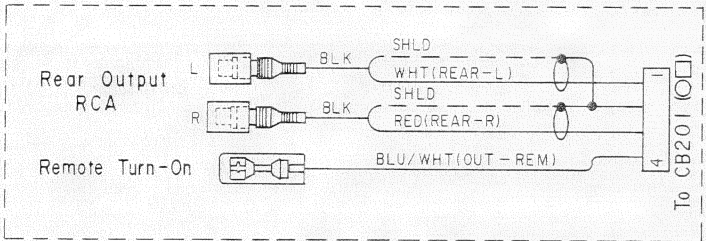
From GR Control P.C.Board
(CB1701)(○) (CB1501)(□△)

To CB501

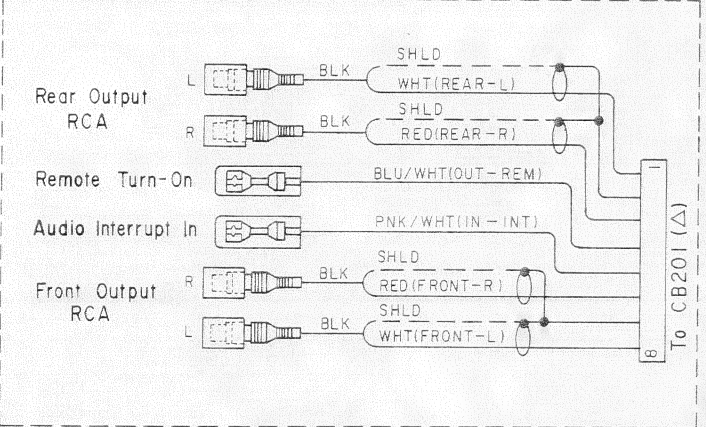
ET801

1 BATT	9 NC
2 BATT	10 RR-
3 FR+	11 GND
4 FR-	12 RL+
5 FL+	13 RL-
6 NC	14 PANT
7 FL-	15 ACC
8 RR+	16 NC

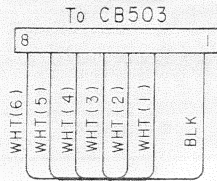
□ ET201 Assy, Connectors



△ ET201 Assy, Connectors



Note :
○ : For TDM-7531R Model Only,
□ : For TDM-7532R Model Only,
△ : For TDM-7535R Model Only,
Others : Common



From DIN P.C.Board (CB504)

To CB401

From Front P.C.Board (CH401)

A

B - 27 -

C

D

E

F - 28 -

G

H

Parts Layout on P.C. Boards and Wiring Diagram (1/2)

1

2

3

4

5

Main P.C.Board (Component Side View)

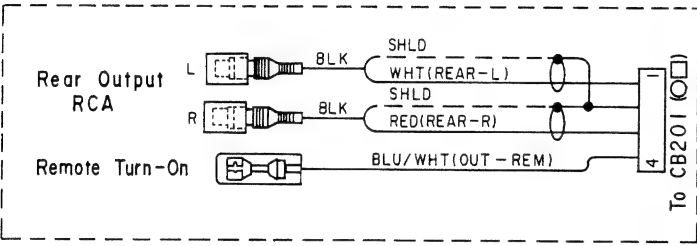
From GR Control P.C.Board
(CB1701)(○) (CB1501)(□△)

To CB501

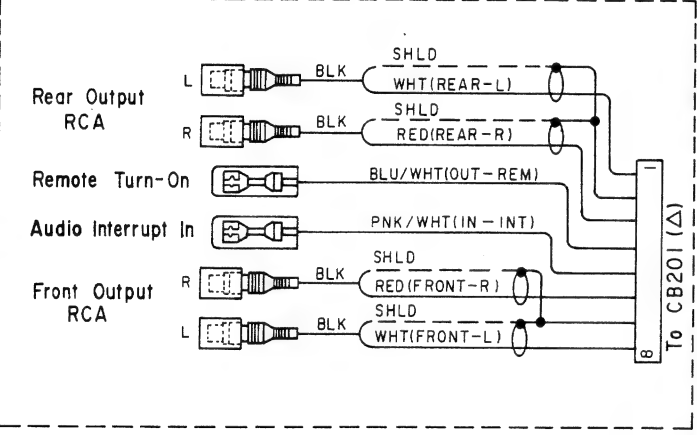
ET801

1 BATT	9 NC
2 BATT	10 RR-
3 FR+	11 GND
4 FR-	12 RL+
5 FL+	13 RL-
6 NC	14 P.ANT
7 FL-	15 ACC
8 RR+	16 NC

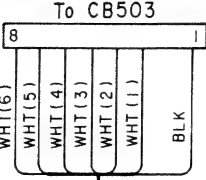
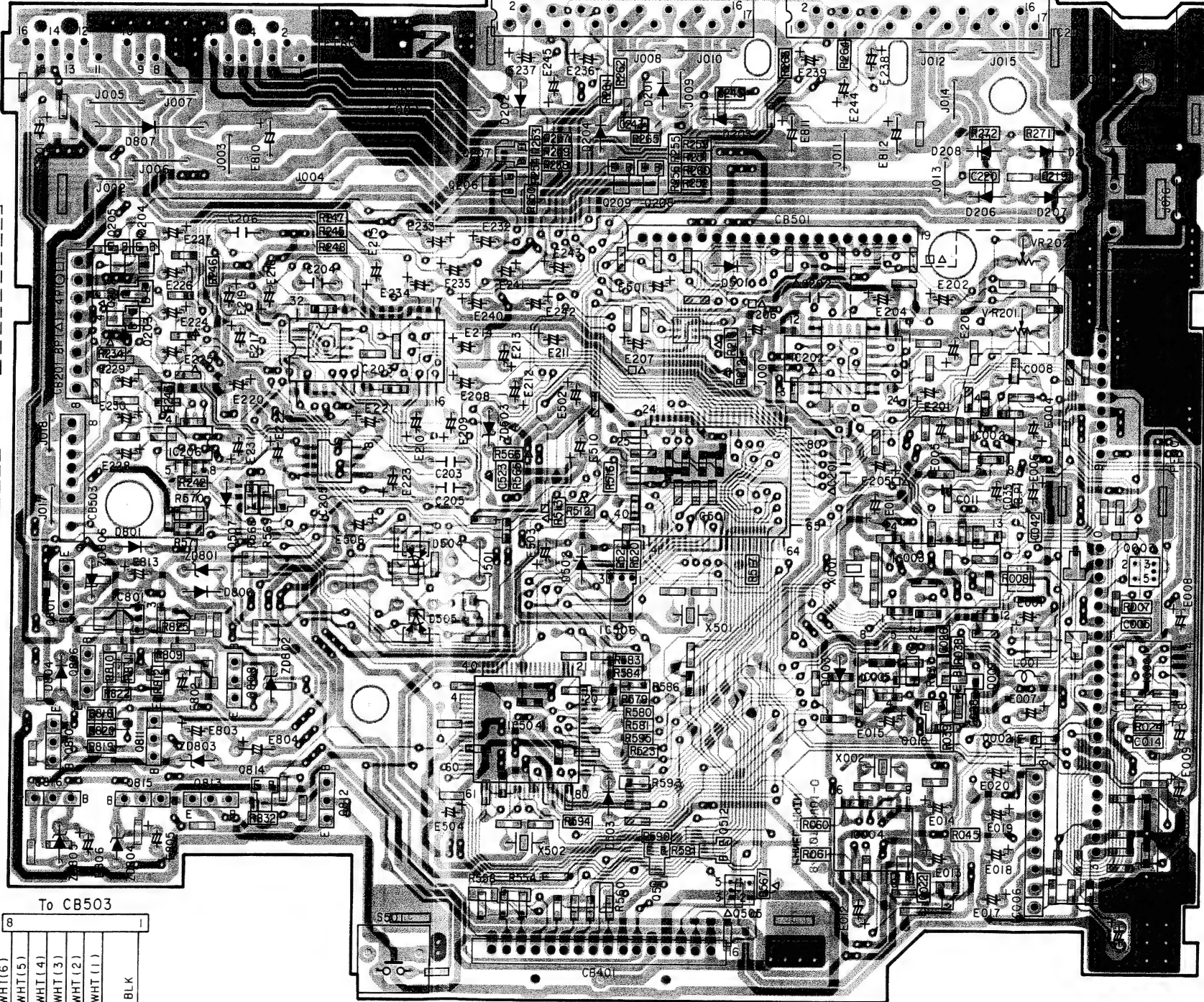
○□ ET201 Assy, Connectors



△ ET201 Assy, Connectors



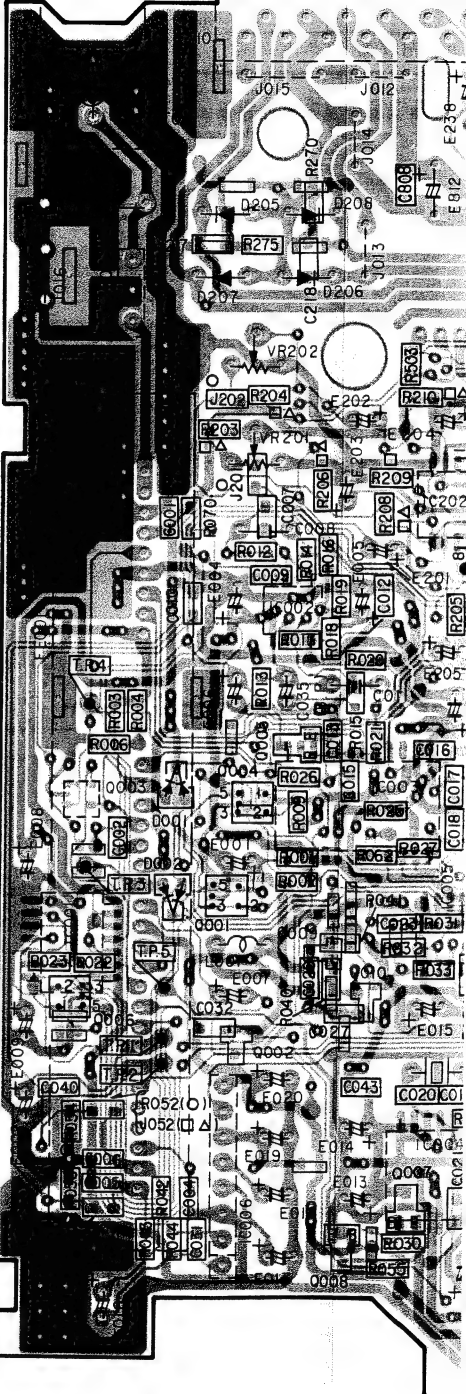
Note :
○ : For TDM-7531R Model Only,
□ : For TDM-7532R Model Only,
△ : For TDM-7535R Model Only,
Others : Common



From DIN P.C.Board (CB504)

To CB401

From Front P.C.Board (CH401)



A

B - 27 -

C

D

E

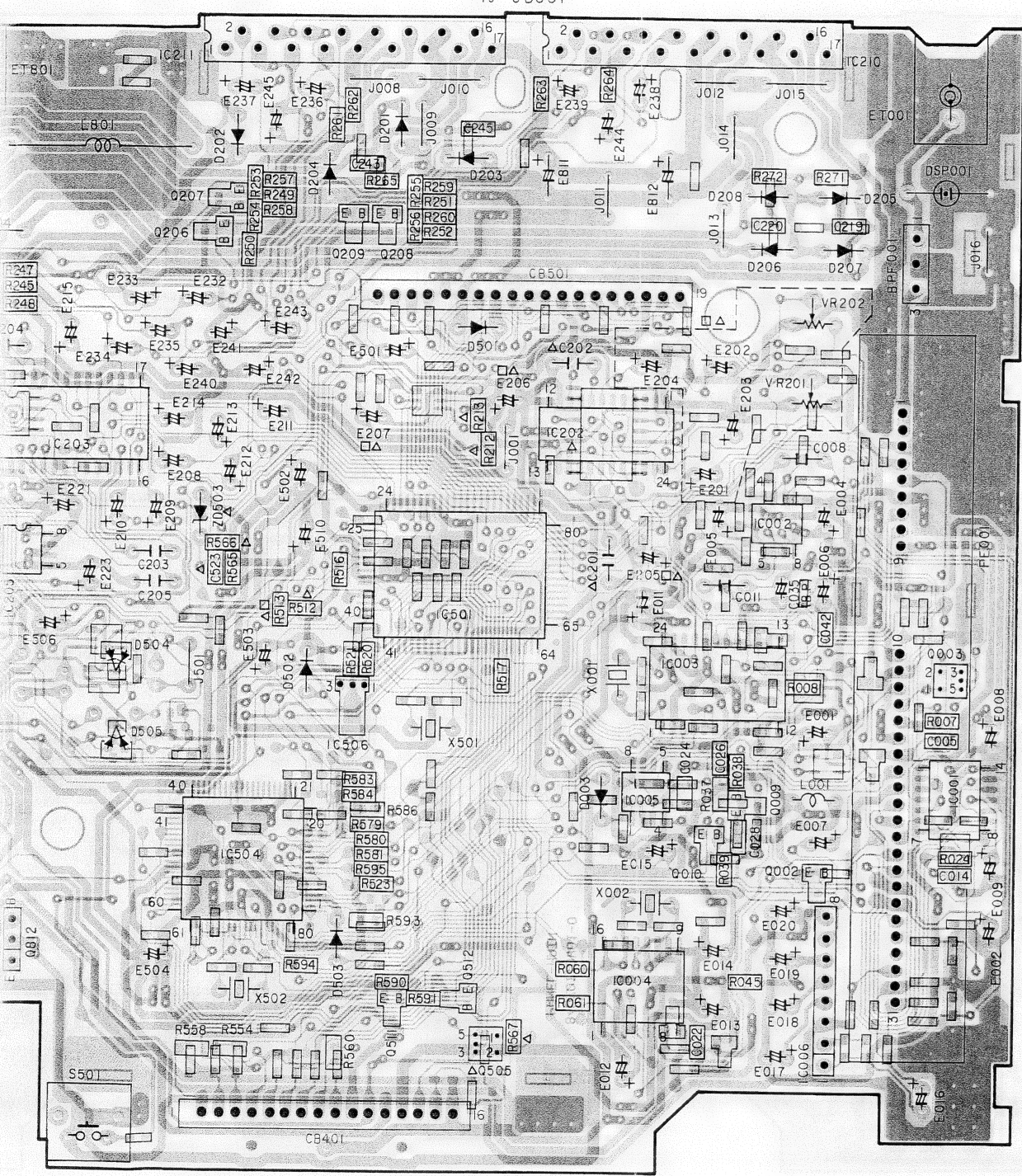
F - 28 -

G

H

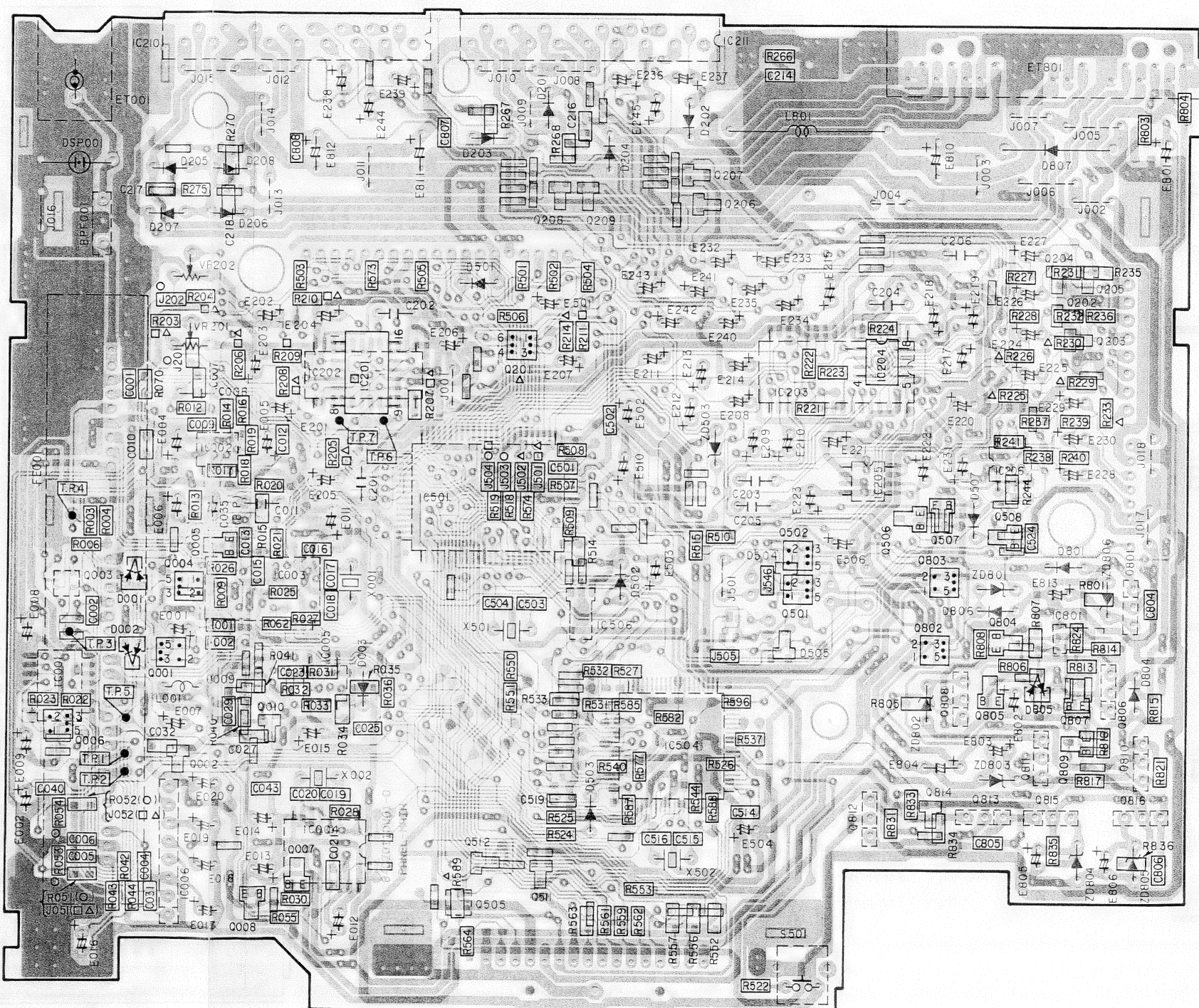
From GR Control P.C.Board
(CBI701)(○) (CBI501)(□△)

Component Side View)



To CB401
From Front P.C.Board (CH401)

Main P.C. Board (Foil Side View)



Orange Color Pattern : Component Side Pattern
Blue Color Pattern : Foil Side Pattern

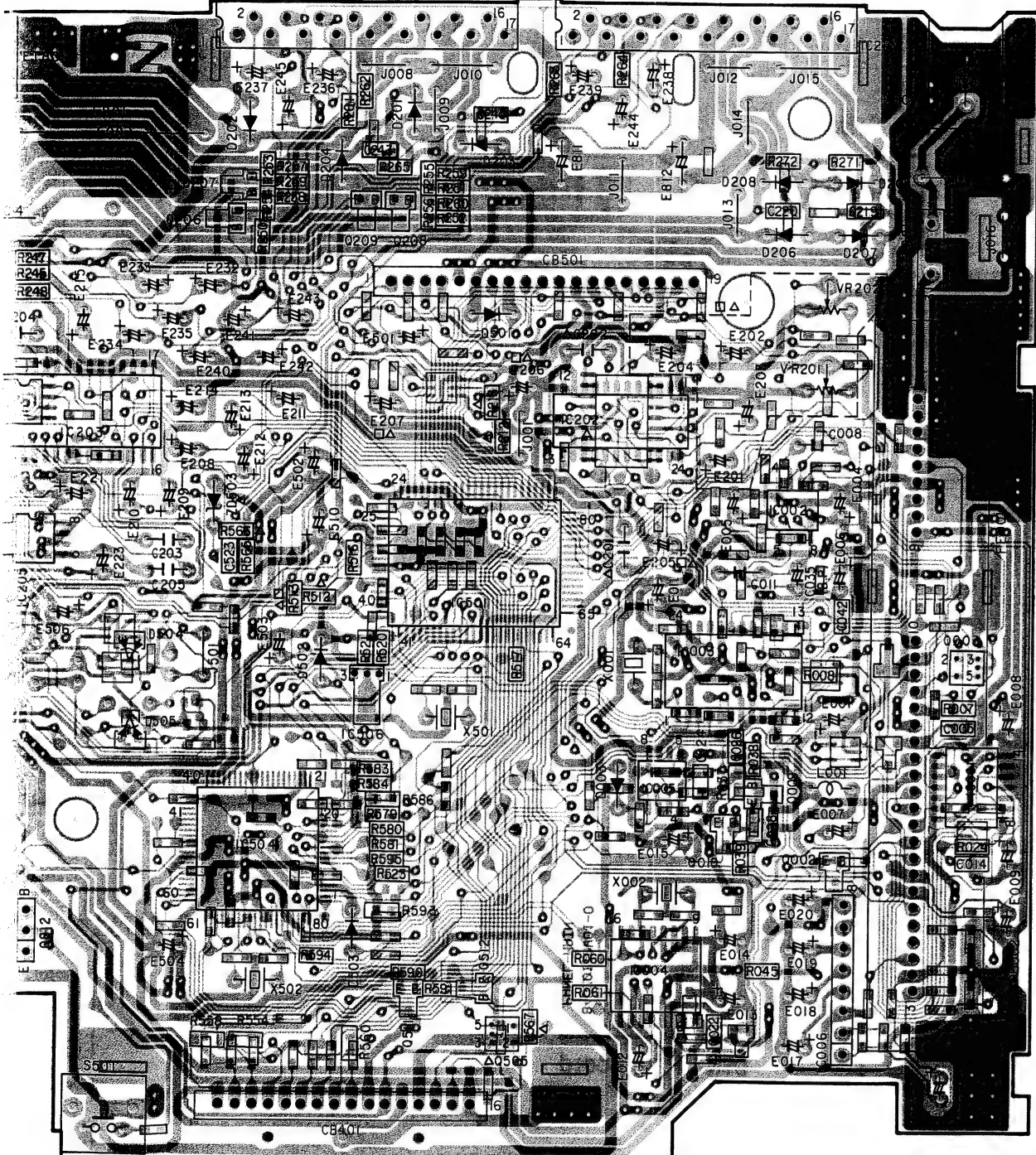
ram (1/2)

From GR Control P.C. Board
(CBI70I)(O) (CBI50I)(□△)

Component Side View)

To CB501

Main P.C. Board (Foil Side View)



To CB401

From Front P.C.Board (CH401)

D

E

F

- 28 -

G

H

1

- 29 -

K

Orange Color Pattern : Component Side Pattern
Blue Color Pattern : Foil Side Pattern

Parts Layout on P.C. Boards and Wiring Diagram (2/2)

All P.C. Boards viewed from soldered side.

(○) Model Only

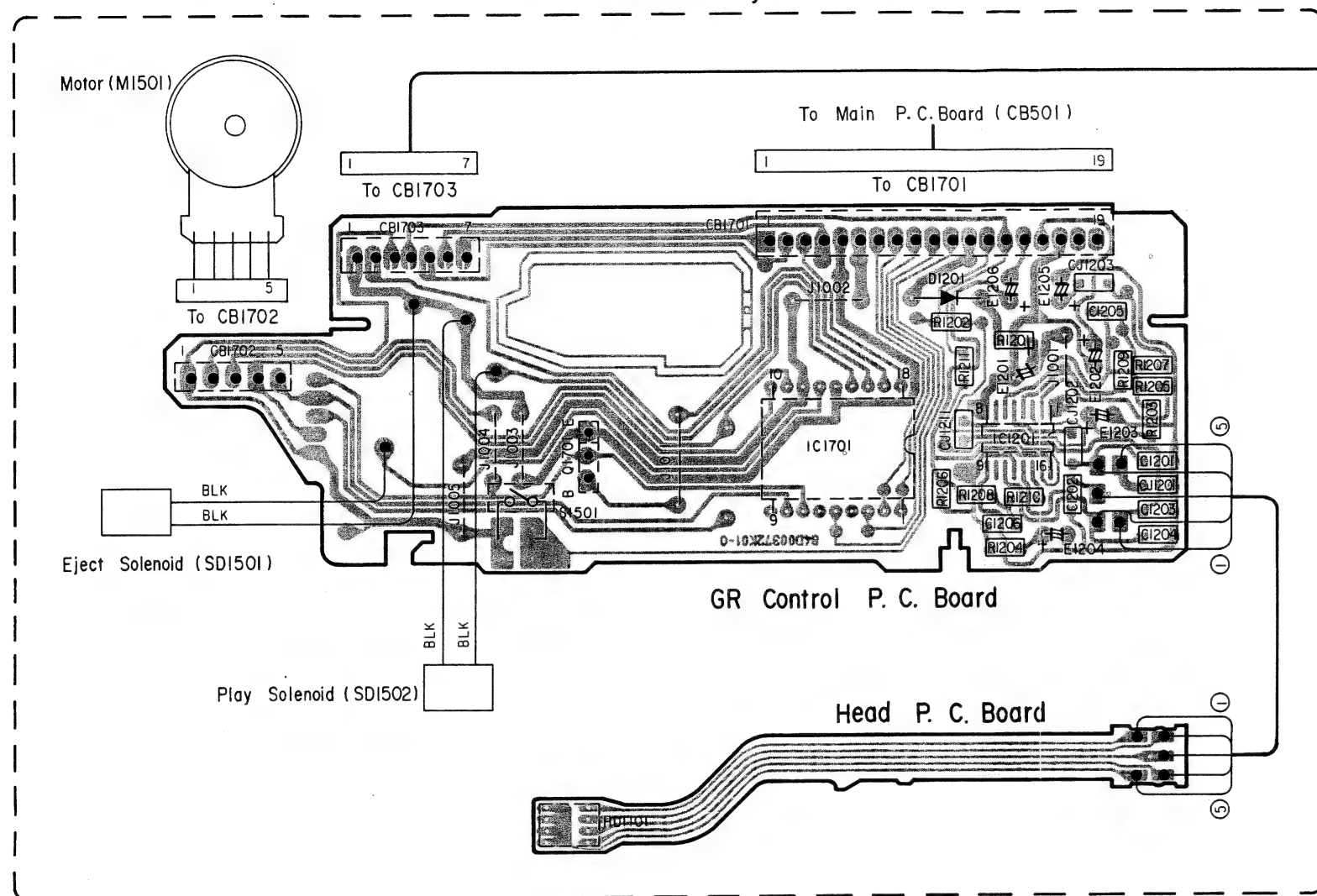
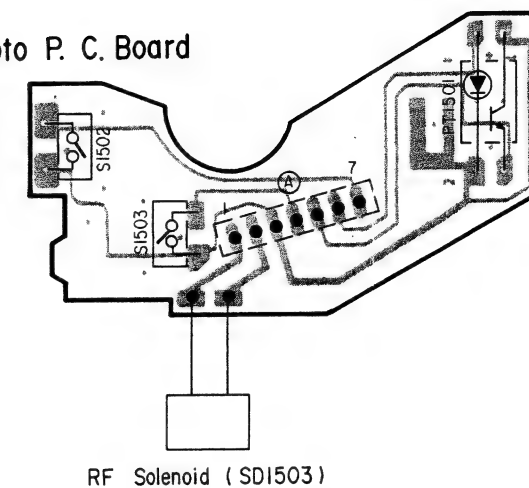
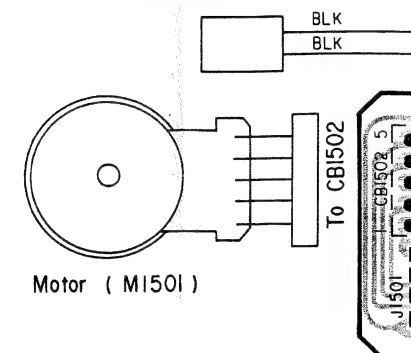


Photo P. C. Board

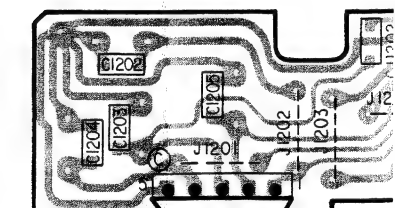


Eject Solenoid (SDI501)

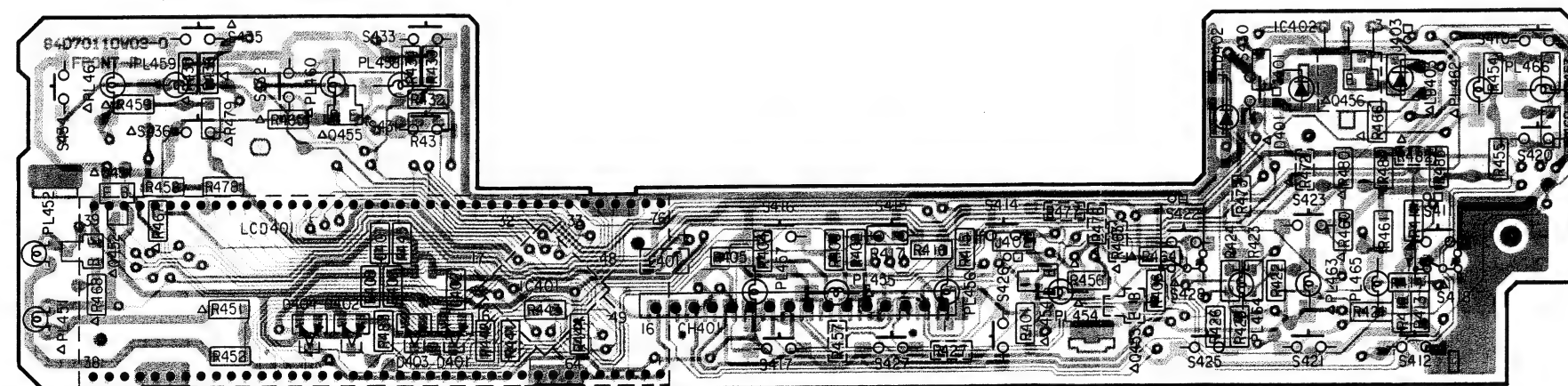


Play Solenoid (SDI502)

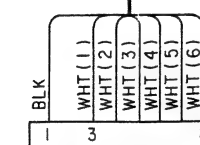
GR Audio



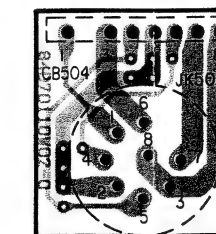
Front P. C. Board



To Main P.C. Board (CB503)



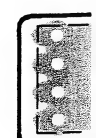
To CB504



DIN P. C. Board

Note : ○ : For TDM-7531R Model Only,
□ : For TDM-7532R Model Only,
△ : For TDM-7535R Model Only,
Others : Common

He



Parts Layout on P.C. Boards and Wiring Diagram (2/2)

All P.C. Boards viewed from soldered side.

(○) Model Only

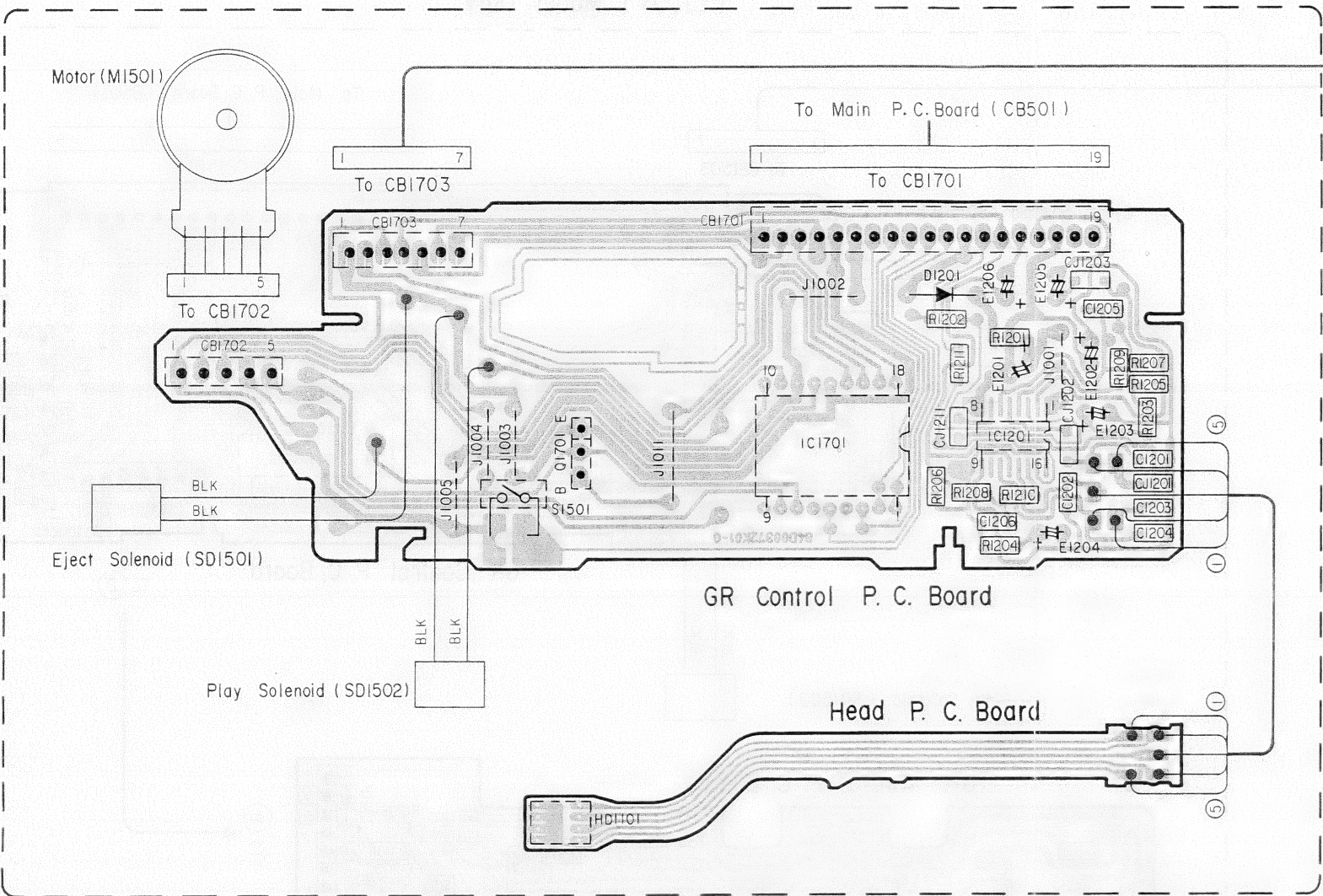
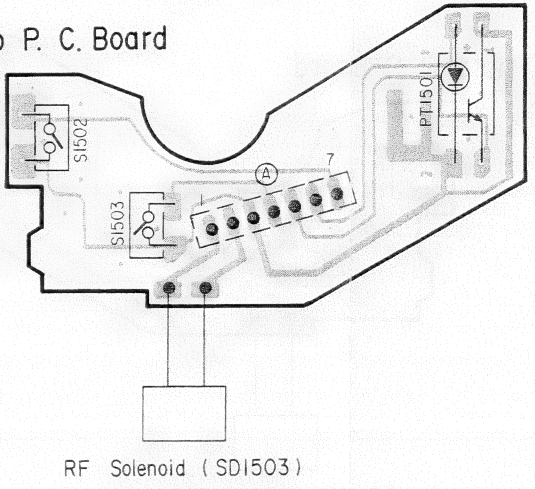
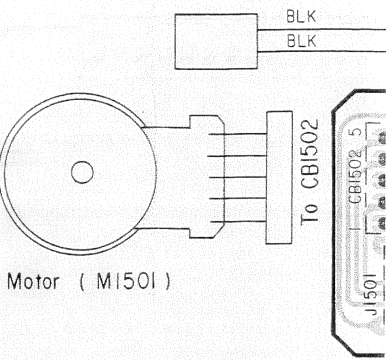


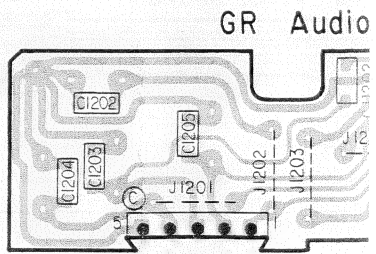
Photo P. C. Board



Eject Solenoid (SDI501)

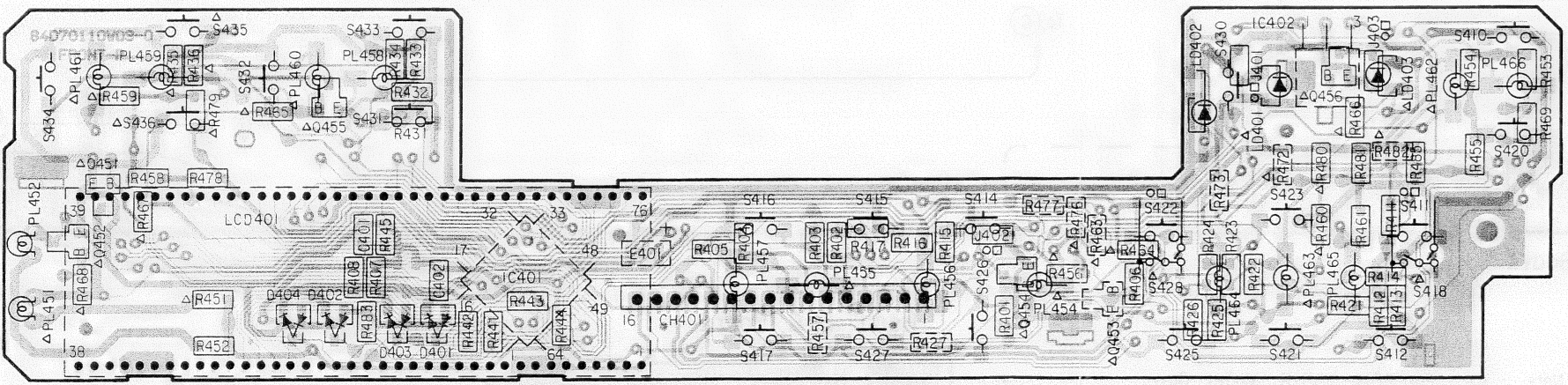


Play Solenoid (SDI502)

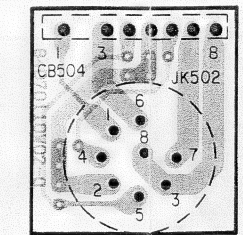
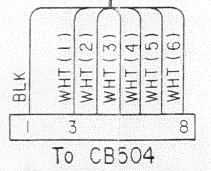


GR Audio

Front P. C. Board



To Main P. C. Board (CB503)



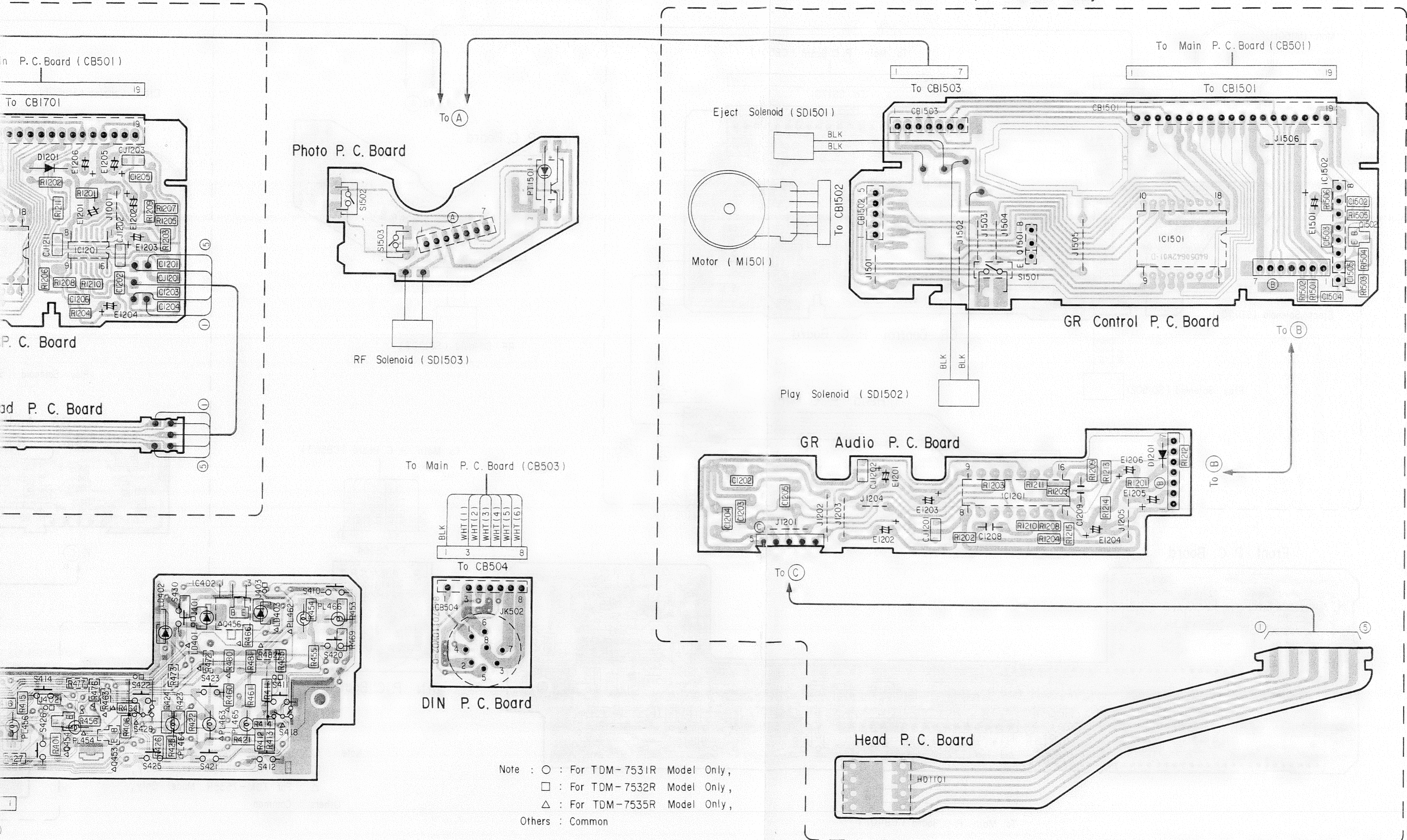
DIN P. C. Board

Note : ○ : For TDM-7531R Model Only,
□ : For TDM-7532R Model Only,
△ : For TDM-7535R Model Only,
Others : Common

He

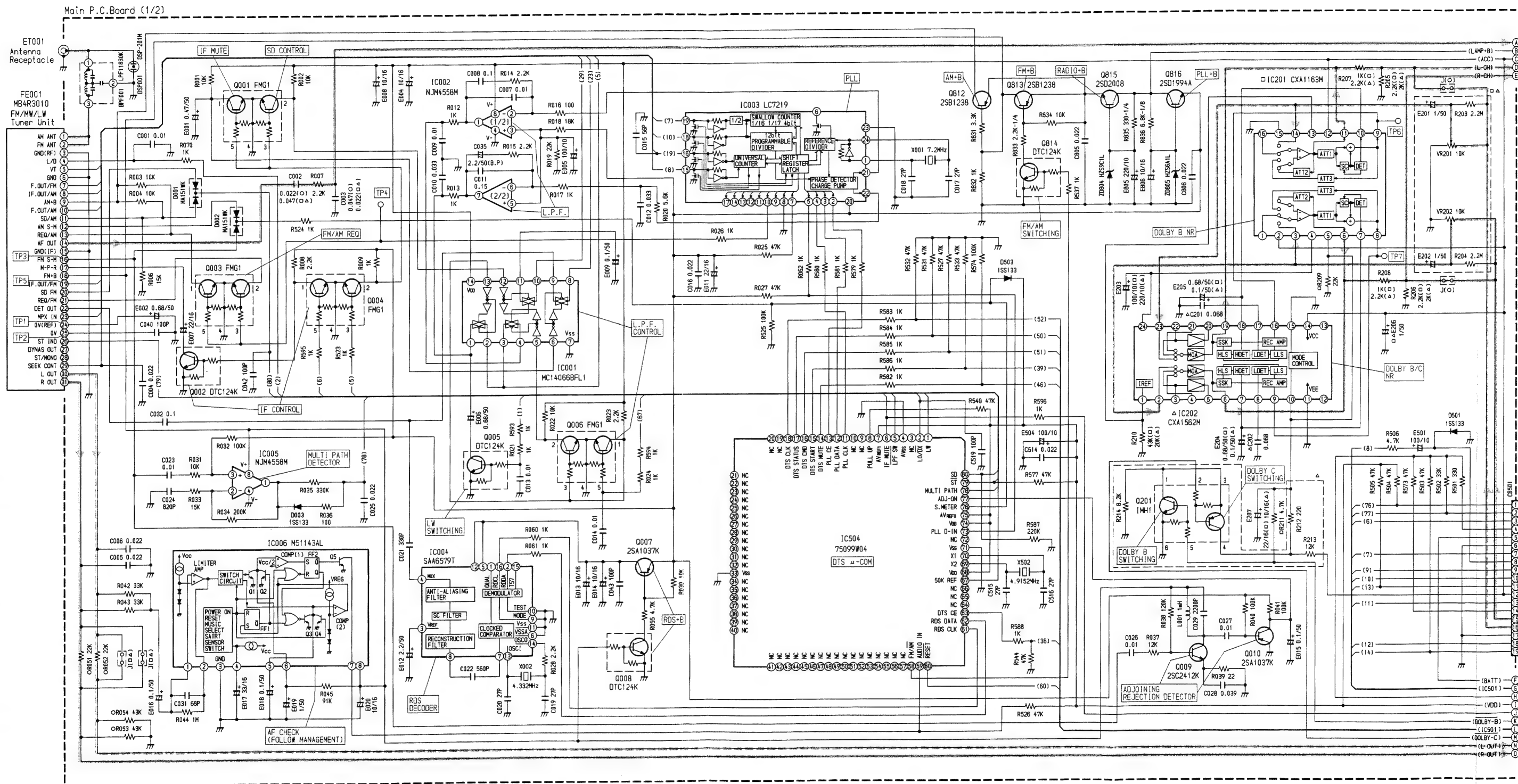


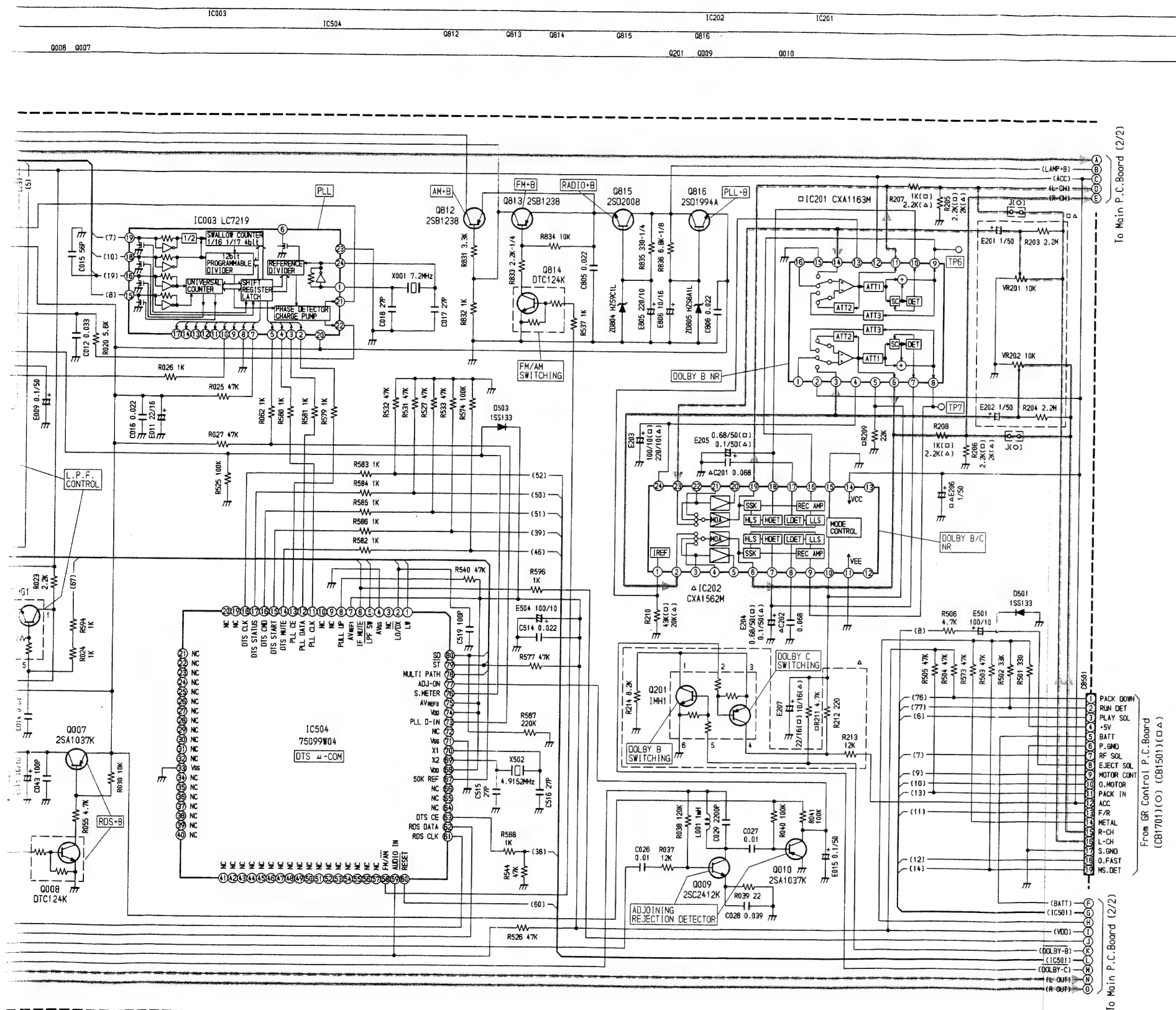
Diagram (2/2) All P.C. Boards viewed from soldered side.



Schematic Diagram (1/3)

IC	IC001 IC006			IC002 IC004	IC001	IC003	IC504	IC202 IC201				
Transistor (Q)	Q002 Q003 Q001			Q004	Q005	Q006	Q008 Q007		Q012 Q013 Q014 Q015	Q016	Q201 Q009	Q010





IC001

MODE	MODE
1 2.2V/4.2V RDS ON/OFF	8 2.4V FM
2 4.2V VT	9 2.4V FM
3 4.2V VT	10 0V/2.3V SEEK ON/OFF
4 2.2V/5.1V RDS ON/OFF	11 0V FM
5 9.4V/0V RDS ON/OFF	12 9.4V FM
6 9.4V FM	13 0V/8.5V FM/AM
7 0V	14 9.4V

IC002

MODE
1 4.2V FM
2 2.7V FM
3 2.7V FM
4 0V
5 2.7V FM
6 2.7V FM
7 2.2V/4.2V RDS ON/OFF
8 9.4V

IC004

MODE	MODE
1 —	9 0V
2 5V FM	10 0V
3 2.4V FM	11 0V
4 2.4V FM	12 4.9V
5 4.8V	13 2.3V XTAL
6 0V	14 2.4V XTAL
7 2.4V FM	15 —
8 2.4V FM	16 4.8V FM

IC003

MODE	MODE
1 0V XTAL	13 —
2 4.9V SEEK ON	14 —
3 4.9V SEEK ON	15 2.8V MW/LW
4 4.9V SEEK ON	16 0V FM
5 4.7V SEEK ON	17 —
6 —	18 2.5V MW/LW
7 4.8V FM	19 2.5V FM
8 0V	20 4.8V
9 —	21 2.7V FM
10 4.8V FM	22 2.7V FM
11 —	23 0V
12 —	24 2.5V XTAL

IC005

MODE
1 4.8V FM
2 4.8V FM
3 4.8V FM
4 0V
5 —
6 —
7 —
8 9V

IC006

MODE
1 1.4V FM
2 1.4V FM
3 0V
4 1.3V FM
5 0V FM
6 0V/8.5V MOD. ON/OFF
7 0V/5V MOD. ON/OFF
8 9V

IC201

MODE
1 —
2 9.2V
3 SIG. R OUT
4 4.7V TAPE
5 3.8V/0V DOLBY OFF/B
6 SIG. R OUT
7 0.38V/0.56V DOLBY OFF/B
8 4.9V TAPE
9 4.9V TAPE
10 0.36V/0.7V DOLBY OFF/B
11 SIG. L OUT
12 9.5V
13 1.2V TAPE
14 SIG. L OUT
15 0V
16 —

IC202

MODE	MODE
1 1.2V TAPE	13 —
2 SIG. R OUT	14 9.4V
3 —	15 0V
4 —	16 4.7V TAPE
5 —	17 0.36V/0.64V/0.7V DOLBY NR/B/C
6 SIG. R OUT	18 0.36V/0.64V/0.7V DOLBY NR/B/C
7 0.36V/0.64V/0.7V DOLBY NR/B/C	19 SIG. L OUT
8 0.36V/0.64V/0.7V DOLBY NR/B/C	20 —
9 4.7V TAPE	21 —
10 0V/4.8V/3V DOLBY NR/B/C	22 —
11 0V	23 SIG. L IN
12 —	24 4.7V TAPE

IC504

MODE	MODE
1 5V LW	63 5V FM
2 5V/0V LO/DX	64 —
3 —	65 —
4 0V	66 —
5 5V FM	67 5V/0V RDS ON/OFF
6 0V FM	68 5V
7 5V FM	69 PS XTAL
8 5V FM	70 PS XTAL
9 —	71 0V
10 —	72 —
11~18 0V~5V FM	73 4.7V SEEK ON
19~32 —	74 5V
33 0V	75 5V
34~57 —	76 0V FM
58 5V/0V FM/AM	77 5V FM
59 5V A-IN	78 5V FM
60 0V/5V RESET ON/OFF	79 0V/5V ST/MONO
61 5V FM	80 0V FM
62 5V FM	

B	C	E	MODE
Q002 3.6V	0V	0V	FM
Q005 4.7V/0V	0V/0V	0V/0V	LW ON/OFF
Q007 4.2V	4.8V	4.9V	FM
Q008 9V	0V	0V	FM
Q009 0.9V	8.8V	0V	FM
Q010 4.8V	0V	4.8V	FM
Q012 9V/8.5V	0V/9V	9.1V/8.1V	FM/AM
Q013 8.4V/8.1V	9V/0.7V	9V/8.1V	FM/AM
Q014 4.8V/0V	0V/9V	0V/0V	FM/AM
Q015 9.5V	13.8V	9.1V	TUNER
Q016 5.5V	13.8V	4.9V	TUNER

Q001

MODE
1 0V/9.5V SEEK ON/OFF
2 0V/9.5V SEEK ON/OFF
3 3V/0V SEEK ON/OFF
4 0V
5 3V/0V SEEK ON/OFF

Q003

MODE
1 7.8V/0V REQ ON/OFF
2 1V/0V REQ ON/OFF
3 0V/4.5V REQ ON/OFF
4 0V
5 0V/4.5V REQ ON/OFF

Q004

MODE
1 0V/4V IF MUTE ON/OFF
2 3V/0V SEEK ON/OFF
3 0V/5V SEEK ON/OFF
4 0V
5 4.2V/0V IF MUTE ON/OFF

Q006

MODE
1 0V/8.7V RDS ON/OFF
2 8.8V/0V RDS ON/OFF
3 0V/8.7V RDS ON/OFF
4 0V
5 4.7V/0V RDS ON/OFF

Q201

MODE
1 0V/3.7V/0V DOLBY OFF/B/C
2 4.9V/4.9V/0V DOLBY OFF/B/C
3 0V/4.3V/8.2V DOLBY OFF/B/C
4 5V/0V/5V DOLBY OFF/B/C
5 0V
6 0V

[Measuring Conditions]

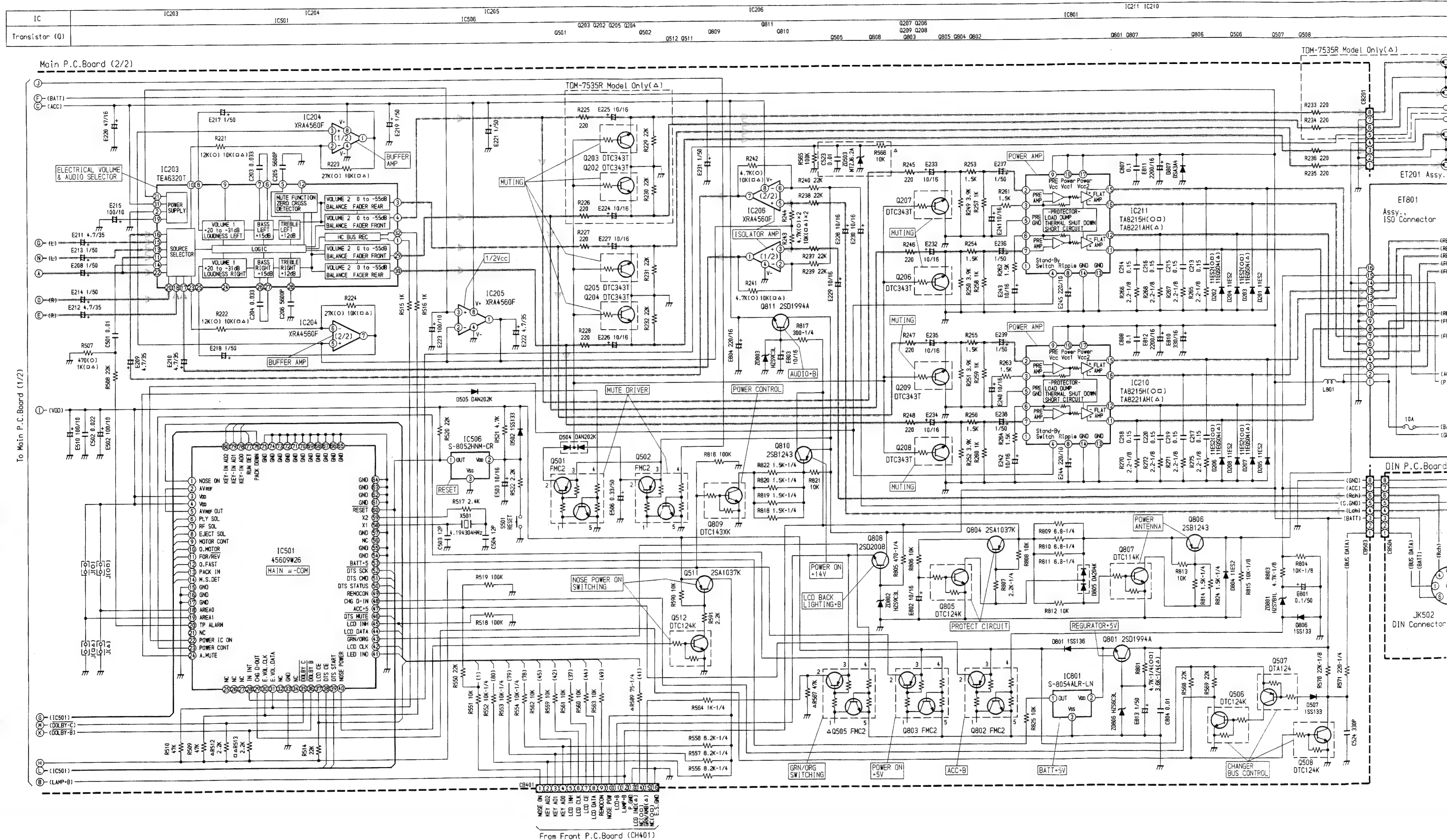
- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Meter
- Measuring Point Reference : Between Ground
- Measuring Conditions : FM : 98.1MHz, 1W Output
MW : 999kHz, 0.16W Output
LW : 216kHz, 0.16W Output
TAPE : MTT-212, 1W Output

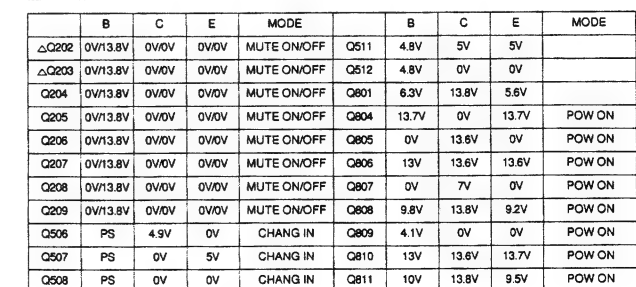
Note : ○ : For TDM-7531R Model Only,
□ : For TDM-7532R Model Only,
△ : For TDM-7535R Model Only,
Others : Common.

NOTES:

- All resistance values are in ohms. K = 1,000
- All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

Schematic Diagram (2/3)



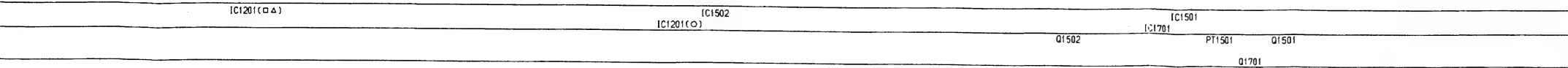


Note : ○ : For TDM-7531R Model Only,
□ : For TDM-7532R Model Only,
△ : For TDM-7535R Model Only,
Others : Common.

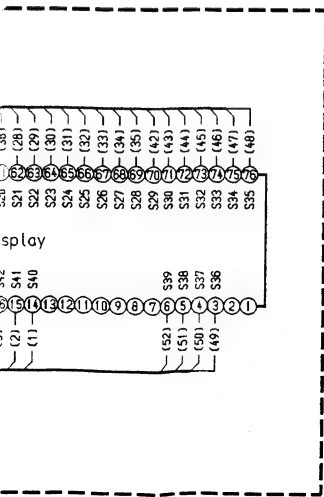
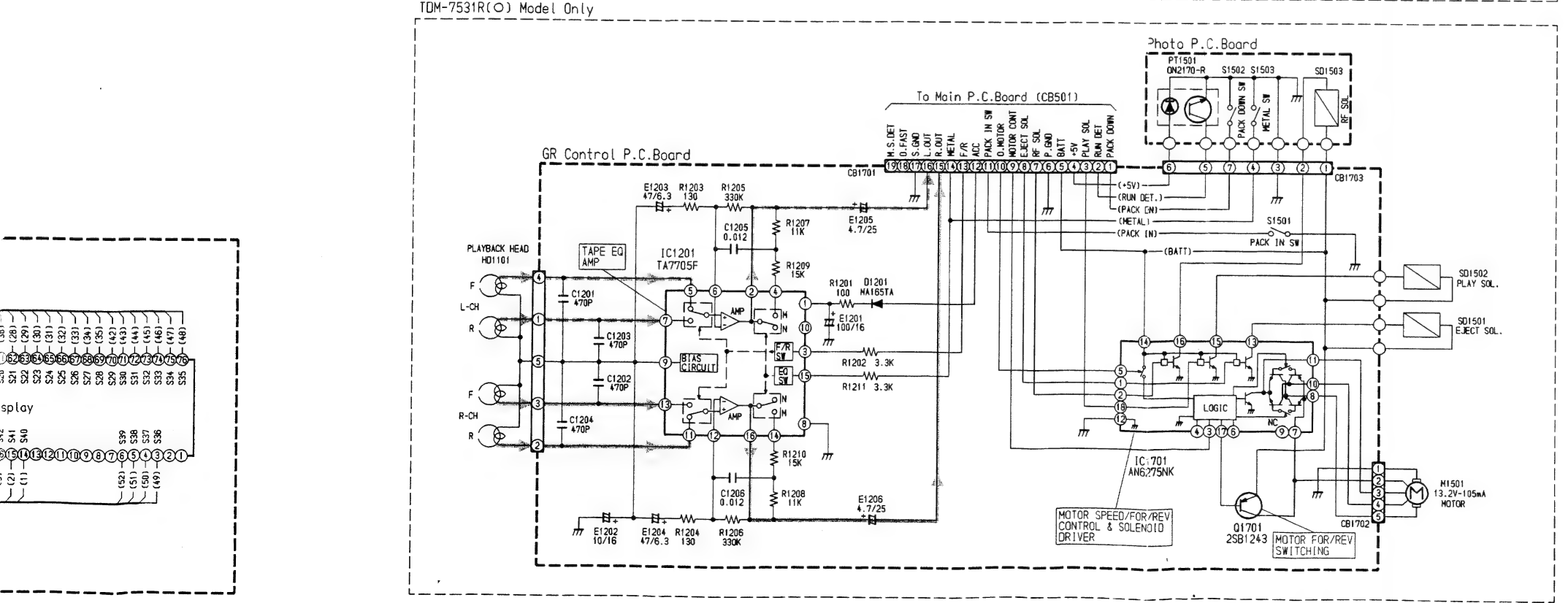
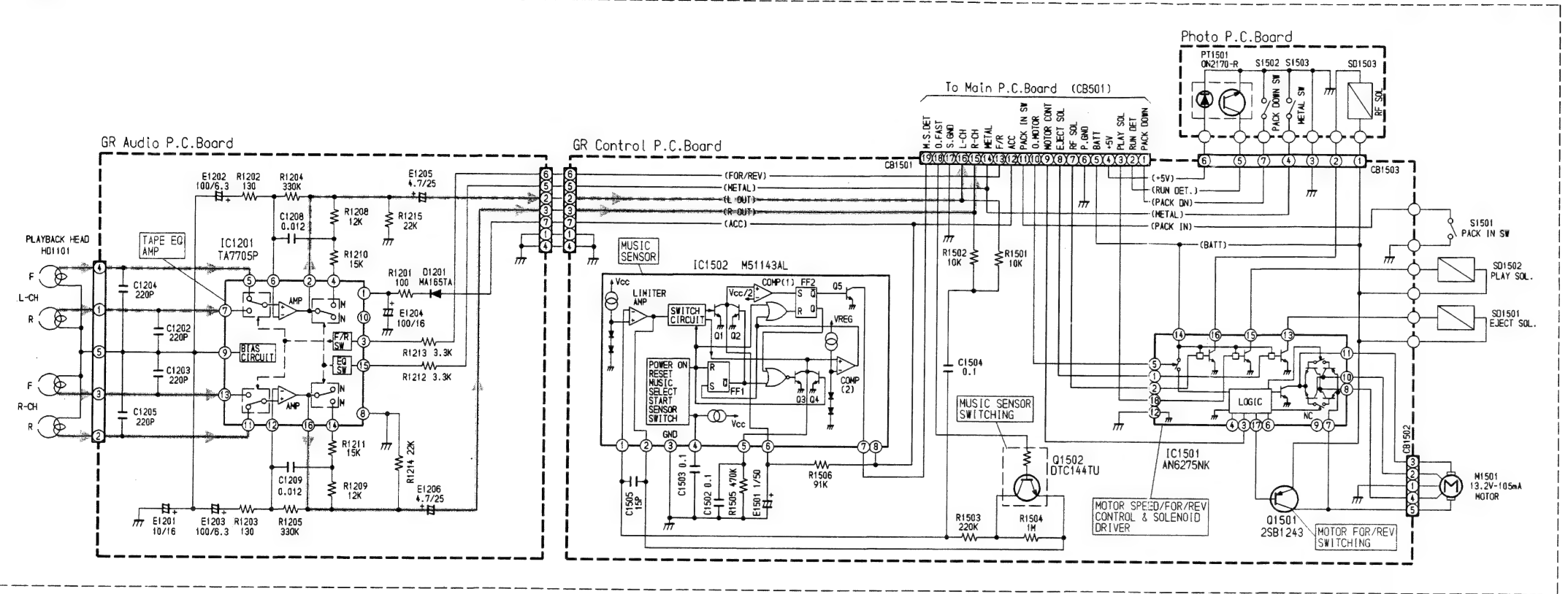
1. All resistance values are in ohms. $K = 1,000$
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

5

A



TDM-7532R(□), TDM-7535R(△) Model Only



IC401

		MODE
1~55	PS	
56	5.5V	
57	0V~5V	IMH
58	—	
59	—	
60	0V	
61	PS	OSC
62	0V~5V	CE
63	0V~5V	CLK
64	0V~5V	DATA

Electrical Parts List

Resistor : Carbon resistors under 1 / 4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : μ F=microfarads, pF=picofarads

Abbreviations			Symbol No.	Part No.	Description
RES.= Resistor	CAP.= Capacitor				
C.F.= Carbon Film	ELY.= Electrolytic				
M.F.= Metal Film	CER.= Ceramic				
M.O.= Metal Oxide Film	MYL.= Mylar				
M.P.= Metal Plate	TAN.= Tantalum				
TR.= Transistor	POLY.= Polystyrol				
TRANS.= Transformer	PP.= Polypropylene				
CP.= Chip	PLT.= Polyethylene				
	PF.= Polyester Film				
Main P. C. Board					
IC's					
IC001	51T40941U03	MC14066BFL1	Q007	48T63420F01	CP., 2SA1037K
IC002	51T93336F01	NJM4558M	Q008	48T62967F03	CP., DTC124K
IC003	51T35504W02	LC7219	Q009	48T63417F01	CP., 2SC2412K
IC004	51T55054W02	SAA6579T	Q010	48T63420F01	CP., 2SA1037K
IC005	51T93336F01	NJM4558M	Q201	48T94471F03	CP., IMH1
IC006	51T67915F01	M51143AL	Q202	48T62967F33	CP., DTC343T
IC201	51T16466W02	CXA1163M	Q203	48T62967F33	CP., DTC343T
IC202	51T65314W01	CXA1562M	Q204	48T62967F33	CP., DTC343T
IC203	51T65131W01	TEA6320T	Q205	48T62967F33	CP., DTC343T
IC204	51T92001F21	XRA4560F	Q206	48T62967F33	CP., DTC343T
IC205	51T92001F21	XRA4560F	Q207	48T62967F33	CP., DTC343T
IC206	51T92001F21	XRA4560F	Q208	48T62967F33	CP., DTC343T
IC210	51T35133W02	TA8215H	Q209	48T62967F33	CP., DTC343T
or	51T65310W01	MC13309T3	Q501	48T73888F12	CP., FMC2
IC210	51T35133W02	TA8215H	Q502	48T73888F12	CP., FMC2
or	51T65310W01	MC13309T3	Q505	48T73888F12	CP., FMC2
IC210	51T25614W11	TA8221AH	Q506	48T62967F03	CP., DTC124K
IC211	51T35133W02	TA8215H	Q507	48T62966F03	CP., DTA124
or	51T65310W01	MC13309T3	Q508	48T62967F03	CP., DTC124K
IC211	51T35133W02	TA8215H	Q511	48T63420F01	CP., 2SA1037K
or	51T65310W01	MC13309T3	Q512	48T62967F03	CP., DTC124K
IC211	51T25614W11	TA8221AH	Q801	48T93828F04	2SD1994A
IC501	51T45609W26	45609W26	Q802	48T73888F12	CP., FMC2
IC504	51T75099W04	75099W04	Q803	48T73888F12	CP., FMC2
IC506	51T95014F13	S-8052HNM-CR	Q804	48T63420F01	CP., 2SA1037K
IC801	51T95014F09	S-8054ALR-LN	Q805	48T62967F03	CP., DTC124K
			Q806	48T84366F01	2SB1243
			Q807	48T62967F02	CP., DTC114K
			Q808	48T15289W03	2SD2008
			Q809	48T62967F05	CP., DTC143XK
			Q810	48T84366F01	2SB1243
			Q811	48T93828F04	2SD1994A
			Q812	48T84234F03	2SB1238
			Q813	48T84234F03	2SB1238
			Q814	48T62967F03	CP., DTC124K
			Q815	48T15289W03	2SD2008
			Q816	48T93828F04	2SD1994A
Transistors			Diodes / Surge Protector		
Q001	48T73888F08	CP., FMG1	D001	48T52446F01	CP., MA151WK
Q002	48T62967F03	CP., DTC124K	D002	48T52446F01	CP., MA151WK
Q003	48T73888F08	CP., FMG1	D003	48T68828F11	1SS133
Q004	48T73888F08	CP., FMG1	D201	48T84052F11	11ES2
Q005	48T62967F03	CP., DTC124K	D202	48T84052F11	11ES2
Q006	48T73888F08	CP., FMG1	D202	48T84052F11	11ES2

Notes : \circ : For TDM-7531R Model only, \square : For TDM-7532R Model only, \triangle : For TDM-7535R Model only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
\triangle D202	48T55247W02	11EQS04	Capacitors		
\circ D203	48T84052F11	11ES2	C001	08S65128F69	CP., 0.01 μ F
\square D203	48T84052F11	11ES2	E001	23S75372W13	ELY., 0.47 μ F / 50
\triangle D203	48T55247W02	11EQS04	C002	08T15399W01	CP., 0.022 μ F
D204	48T84052F11	11ES2	\square C002	08T15399W03	CP., 0.047 μ F
D205	48T84052F11	11ES2	\triangle C002	08T15399W03	CP., 0.047 μ F
\circ D206	48T84052F11	11ES2	E002	23S75372W14	ELY., 0.68 μ F / 50
\square D206	48T84052F11	11ES2	C003	08T15399W03	CP., 0.047 μ F
\triangle D206	48T55247W02	11EQS04	\square C003	08T15399W01	CP., 0.022 μ F
\circ D207	48T84052F11	11ES2	\triangle C003	08T15399W01	CP., 0.022 μ F
\square D207	48T84052F11	11ES2	C004	08T15399W01	CP., 0.022 μ F
\triangle D207	48T55247W02	11EQS04	E004	23S75372W04	ELY., 10 μ F / 16V
D208	48T84052F11	11ES2	C005	08T15399W01	CP., 0.022 μ F
D501	48T68828F11	1SS133	E005	23S75372W02	ELY., 100 μ F / 10V
D502	48T68828F11	1SS133	C006	08T15399W01	CP., 0.022 μ F
D503	48T68828F11	1SS133	E006	23S75372W14	ELY., 0.68 μ F / 50
D504	48T63462F01	CP., DAN202K	C007	08S65128F69	CP., 0.01 μ F
D505	48T63462F01	CP., DAN202K	E007	23S75372W05	ELY., 22 μ F / 16V
D507	48T68828F11	1SS133	C008	08T35122W13	PF., 0.1 μ F
D801	48T70933F11	1SS136	E008	23S75372W04	ELY., 10 μ F / 16V
D804	48T84052F11	11ES2	C009	08S65128F69	CP., 0.01 μ F
D805	48T64134F01	CP., DA204K	E009	23S75372W10	ELY., 0.1 μ F / 50V
D806	48T68828F11	1SS133	C010	08T15399W02	CP., 0.033 μ F
D807	48T68580F03	DSA3A4	C011	08T35122W15	PF., 0.15 μ F
\triangle ZD503	48T45012W29	Zener, MTZJ6.2A	E011	23S75372W05	ELY., 22 μ F / 16V
ZD801	48T25766W13	Zener, HZS7B1L	C012	08T15399W02	CP., 0.033 μ F
ZD802	48T25766W26	Zener, HZS9C3L	E012	23S75372W16	ELY., 2.2 μ F / 50V
ZD803	48T25766W26	Zener, HZS9C3L	C013	08S65128F69	CP., 0.01 μ F
ZD804	48T25766W24	Zener, HZS9C1L	E013	23S75372W04	ELY., 10 μ F / 16V
ZD805	48T25766W01	Zener, HZS6A1L	C014	08S65128F69	CP., 0.01 μ F
ZD806	48T25766W09	Zener, HZS6C3L	E014	23S75372W04	ELY., 10 μ F / 16V
DSP001	48T81909F01	DSP-201M	C015	08S82122F31	CP., 56pF
Crystals			E015	23S75372W10	ELY., 0.1 μ F / 50V
X001	91T45118W43	7.2MHz	C016	08T15399W01	CP., 0.022 μ F
X002	91T45118W18	4.332MHz	E016	23S75372W10	ELY., 0.1 μ F / 50V
X501	91T45118W17	4.194304MHz	C017	08S82122F23	CP., 27pF
X502	91T45118W27	4.9152MHz	E017	23S75372W06	ELY., 33 μ F / 16V
Filter / Coils			C018	08S82122F23	CP., 27pF
BPF001	91T75257W01	Filter, LPF11830K	E018	23S75372W10	ELY., 0.1 μ F / 50V
L001	24T25798W13	Inductor, 1mH	C019	08S82122F23	CP., 27pF
L801	24T75055W03	Choke	E019	23S75372W15	ELY., 1 μ F / 50V
Switch			C020	08S82122F23	CP., 27pF
S501	40T16096W03	Tact, SKHHLW (RESET)	E020	23S75372W04	ELY., 10 μ F / 16V
			C021	08S65128F47	CP., 330pF
			C022	08S65128F53	CP., 560pF
			C023	08S65128F69	CP., 0.01 μ F
			C024	08S65128F56	CP., 820pF
			C025	08T15399W01	CP., 0.022 μ F
			C026	08S65128F69	CP., 0.01 μ F
			C027	08S65128F69	CP., 0.01 μ F
			C028	08S65128F81	CP., 0.039 μ F

Notes : \circ : For TDM-7531R Model only, \square : For TDM-7532R Model only, \triangle : For TDM-7535R Model only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
	C029	08S65128F61 CP., 2200pF	Δ E225	23S75372W04	ELY., 10μF / 16V
	C031	08S65128F31 CP., 68pF	E226	23S75372W04	ELY., 10μF / 16V
	C032	08T15807W05 CP., 0.1μF	E227	23S75372W04	ELY., 10μF / 16V
	C035	23T82372F19 ELY., (B.P) 2.2μF / 50V	E228	23S75372W04	ELY., 10μF / 16V
	C040	08S65128F35 CP., 100pF	E229	23S75372W04	ELY., 10μF / 16V
	C042	08S65128F35 CP., 100pF	E230	23S75372W04	ELY., 10μF / 16V
	C043	08S65128F35 CP., 100pF	E231	23S75372W15	ELY., 1μF / 50V
Δ	C201	08T35122W11 CP., 0.068μF	E232	23S75372W04	ELY., 10μF / 16V
□	E201	23S75372W15 ELY., 1μF / 50V	E233	23S75372W04	ELY., 10μF / 16V
Δ	E201	23S75372W15 ELY., 1μF / 50V	E234	23S75372W04	ELY., 10μF / 16V
	C202	08T35122W11 CP., 0.068μF	E235	23S75372W04	ELY., 10μF / 16V
□	E202	23S75372W15 ELY., 1μF / 50V	E236	23T55405W15	ELY., 1μF / 50V
Δ	E202	23S75372W15 ELY., 1μF / 50V	E237	23T55405W15	ELY., 1μF / 50V
	C203	08T35122W07 PF., 0.033μF	E238	23T55405W15	ELY., 1μF / 50V
□	E203	23S75372W02 ELY., 100μF / 10V	E239	23T55405W15	ELY., 1μF / 50V
	E203	23S75372W03 ELY., 220μF / 10V	E240	23S75372W04	ELY., 10μF / 16V
	C204	08T35122W07 PF., 0.033μF	E241	23S75372W04	ELY., 10μF / 16V
□	E204	23S75372W14 ELY., 0.68μF / 50V	E242	23S75372W04	ELY., 10μF / 16V
Δ	E204	23S75372W10 ELY., 0.1μF / 50V	E243	23S75372W04	ELY., 10μF / 16V
	C205	08T55390W14 PF., 5600pF	E244	23T55378W01	ELY., 220μF / 10V
□	E205	23S75372W14 ELY., 0.68μF / 50V	E245	23T55378W01	ELY., 220μF / 10V
Δ	E205	23S75372W10 ELY., 0.1μF / 50V	C501	08S65128F69	CP., 0.01μF
	C206	08T55390W14 PF., 5600pF	E501	23S75372W02	ELY., 100μF / 10V
□	E206	23S75372W15 ELY., 1μF / 50V	C502	08T15399W01	CP., 0.022μF
Δ	E206	23S75372W15 ELY., 1μF / 50V	E502	23S75372W02	ELY., 100μF / 10V
□	E207	23S75372W05 ELY., 22μF / 16V	C503	08S82122F15	CP., 12pF
Δ	E207	23S75372W04 ELY., 10μF / 16V	E503	23S75372W04	ELY., 10μF / 16V
	E208	23S75372W15 ELY., 1μF / 50V	C504	08S82122F15	CP., 12pF
	E209	23S75372W09 ELY., 4.7μF / 35V	E504	23S75372W02	ELY., 100μF / 10V
	E210	23S75372W09 ELY., 4.7μF / 35V	E506	23S75372W12	ELY., 0.33μF / 50
	E211	23S75372W09 ELY., 4.7μF / 35V	E510	23S75372W02	ELY., 100μF / 10V
	E212	23S75372W09 ELY., 4.7μF / 35V	C514	08T15399W01	CP., 0.022μF
	C213	08T65020W07 CP., 0.15μF	C515	08S82122F23	CP., 27pF
	E213	23S75372W15 ELY., 1μF / 50V	C516	08S82122F23	CP., 27pF
	C214	08T65020W07 CP., 0.15μF	C519	08S65128F35	CP., 100pF
	E214	23S75372W15 ELY., 1μF / 50V	Δ C523	08S65128F69	CP., 0.01μF
	C215	08T65020W07 CP., 0.15μF	C524	08S65128F47	CP., 330pF
	E215	23S75372W02 ELY., 100μF / 10V	E801	23S75372W10	ELY., 0.1μF / 50V
	C216	08T65020W07 CP., 0.15μF	E802	23S75372W04	ELY., 10μF / 16V
	C217	08T65020W07 CP., 0.15μF	E803	23S75372W04	ELY., 10μF / 16V
	E217	23S75372W15 ELY., 1μF / 50V	C804	08S65128F69	CP., 0.01μF
	C218	08T65020W07 CP., 0.15μF	E804	23T00149L26	ELY., 220μF / 16V
	E218	23S75372W15 ELY., 1μF / 50V	C805	08T15399W01	CP., 0.022μF
	C219	08T65020W07 CP., 0.15μF	E805	23T55378W01	ELY., 220μF / 10V
	E219	23S75372W15 ELY., 1μF / 50V	C806	08T15399W01	CP., 0.022μF
	C220	08T65020W07 CP., 0.15μF	E806	23S75372W04	ELY., 10μF / 16V
	E220	23S75372W07 ELY., 47μF / 16V	C807	08S53332F67	CP., 0.1μF
	E221	23S75372W15 ELY., 1μF / 50V	C808	08S53332F67	CP., 0.1μF
	E222	23S75372W09 ELY., 4.7μF / 35V	E810	23T00149L27	ELY., 330μF / 16V
	E223	23S75372W02 ELY., 100μF / 10V	E811	23T35505W12	ELY., 2200μF / 16V
Δ	E224	23S75372W04 ELY., 10μF / 16V	E812	23T35505W12	ELY., 2200μF / 16V
			E813	23S75372W15	ELY., 1μF / 50V

Notes : ○: For TDM-7531R Model only, □: For TDM-7532R Model only,
Δ: For TDM-7535R Model only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)					
R001	06S64995F77	10K ohm	□ R203	06S64996F30	2.2M ohm
R002	06S64995F77	10K ohm	△ R203	06S64996F30	2.2M ohm
R003	06S64995F77	10K ohm	□ R204	06S64996F30	2.2M ohm
R004	06S64995F77	10K ohm	△ R204	06S64996F30	2.2M ohm
R006	06S64995F81	15K ohm			
R007	06S64995F61	2.2K ohm	□ R205	06S64995F61	2.2K ohm
R008	06S64995F61	2.2K ohm	△ R205	06S64995F60	2K ohm
R009	06S64995F53	1K ohm	□ R206	06S64995F61	2.2K ohm
R012	06S64995F53	1K ohm	△ R206	06S64995F60	2K ohm
R013	06S64995F53	1K ohm	□ R207	06S64995F53	1K ohm
R014	06S64995F61	2.2K ohm			
R015	06S64995F61	2.2K ohm	△ R207	06S64995F61	2.2K ohm
R016	06S64995F29	100 ohm	□ R208	06S64995F53	1K ohm
R017	06S64995F53	1K ohm	△ R208	06S64995F61	2.2K ohm
R018	06S64995F83	18K ohm	□ R209	06S64995F85	22K ohm
R019	06S64995F85	22K ohm	△ R210	06S64995F92	43K ohm
R020	06S64995F71	5.6K ohm	□ R210	06S64995F84	20K ohm
R021	06S64995F53	1K ohm	△ R211	06S64995F69	4.7K ohm
R022	06S64995F77	10K ohm	□ R212	06S64995F37	220 ohm
R023	06S64995F61	2.2K ohm	△ R213	06S64995F79	12K ohm
R024	06S64995F53	1K ohm	△ R214	06S64995F75	8.2K ohm
R025	06S64995F93	47K ohm			
R026	06S64995F53	1K ohm	○ R221	06S64995F79	12K ohm
R027	06S64995F93	47K ohm	□ R221	06S64995F77	10K ohm
R028	06S64995F61	2.2K ohm	△ R221	06S64995F77	10K ohm
R030	06S64995F77	10K ohm	○ R222	06S64995F79	12K ohm
R031	06S64995F77	10K ohm	□ R222	06S64995F77	10K ohm
R032	06S64996F02	100K ohm			
R033	06S64995F81	15K ohm	△ R222	06S64995F77	10K ohm
R034	06S64996F09	200K ohm	○ R223	06S64995F87	27K ohm
R035	06S64996F14	330K ohm	□ R223	06S64995F77	10K ohm
R036	06S64995F29	100 ohm	△ R223	06S64995F77	10K ohm
R037	06S64995F79	12K ohm	○ R224	06S64995F87	27K ohm
R038	06S64996F04	120K ohm			
R039	06S64995F13	22 ohm	□ R224	06S64995F77	10K ohm
R040	06S64996F02	100K ohm	△ R224	06S64995F77	10K ohm
R041	06S64996F02	100K ohm	△ R225	06S64995F37	220 ohm
R042	06S64995F89	33K ohm	△ R226	06S64995F37	220 ohm
R043	06S64995F89	33K ohm	△ R227	06S64995F37	220 ohm
R044	06S64996F26	1M ohm			
R045	06S64996F01	91K ohm	△ R228	06S64995F37	220 ohm
R051	06S64995F85	22K ohm	△ R229	06S64995F85	22K ohm
R052	06S64995F85	22K ohm	△ R230	06S64995F85	22K ohm
R053	06S64995F92	43K ohm	△ R231	06S64995F85	22K ohm
R054	06S64995F92	43K ohm	△ R232	06S64995F85	22K ohm
R055	06S64995F69	4.7K ohm			
R060	06S64995F53	1K ohm	△ R233	06S64995F37	220 ohm
R061	06S64995F53	1K ohm	△ R234	06S64995F37	220 ohm
R062	06S64995F53	1K ohm	△ R235	06S64995F37	220 ohm
			△ R236	06S64995F37	220 ohm
			△ R237	06S64995F85	22K ohm
			△ R238	06S64995F85	22K ohm
			△ R239	06S64995F85	22K ohm
			△ R240	06S64995F85	22K ohm
			○ R241	06S64995F69	4.7K ohm
			□ R241	06S64995F77	10K ohm
			△ R241	06S64995F77	10K ohm

Notes : ○: For TDM-7531R Model only, □: For TDM-7532R Model only,
 △: For TDM-7535R Model only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
○ R242	06S64995F69	4.7K ohm	△ R513	06S64995F61	2.2K ohm
□ R242	06S64995F77	10K ohm	R514	06S64995F85	22K ohm
△ R242	06S64995F77	10K ohm	R515	06S64995F53	1K ohm
○ R243	06S64995F69	4.7K ohm	R516	06S64995F53	1K ohm
□ R243	06S64995F77	10K ohm	R517	06S64995F62	2.4K ohm
△ R243	06S64995F77	10K ohm			
○ R244	06S64995F69	4.7K ohm	R518	06S64996F02	100K ohm
□ R244	06S64995F77	10K ohm	R519	06S64996F02	100K ohm
△ R244	06S64995F77	10K ohm	R520	06S64995F85	22K ohm
R245	06S64995F37	220 ohm	R521	06S64995F69	4.7K ohm
			R522	06S64995F61	2.2K ohm
R246	06S64995F37	220 ohm			
R247	06S64995F37	220 ohm	R523	06S64995F53	1K ohm
R248	06S64995F37	220 ohm	R524	06S64995F53	1K ohm
R249	06S64995F67	3.9K ohm	R525	06S64996F02	100K ohm
R250	06S64995F67	3.9K ohm	R526	06S64995F93	47K ohm
R251	06S64995F67	3.9K ohm	R527	06S64995F93	47K ohm
R252	06S64995F67	3.9K ohm			
R253	06S64995F57	1.5K ohm	R531	06S64995F93	47K ohm
R254	06S64995F57	1.5K ohm	R532	06S64995F93	47K ohm
R255	06S64995F57	1.5K ohm	R533	06S64995F93	47K ohm
R256	06S64995F57	1.5K ohm	R537	06S64995F53	1K ohm
R257	06S64995F53	1K ohm	R540	06S64995F93	47K ohm
R258	06S64995F53	1K ohm			
R259	06S64995F53	1K ohm	R544	06S64995F93	47K ohm
R260	06S64995F53	1K ohm	R550	06S64995F85	22K ohm
R261	06S64995F57	1.5K ohm	R551	06S64995F77	10K ohm
R262	06S64995F57	1.5K ohm	R552	06S70072F77	10K ohm 1/4W
R263	06S64995F57	1.5K ohm	R553	06S70072F77	10K ohm 1/4W
R264	06S64995F57	1.5K ohm			
R265	06S53331F40	2.2 ohm 1/8W	R554	06S70072F77	10K ohm 1/4W
R266	06S53331F40	2.2 ohm 1/8W	R556	06S70072F75	8.2K ohm 1/4W
R267	06S53331F40	2.2 ohm 1/8W	R557	06S70072F75	8.2K ohm 1/4W
R268	06S53331F40	2.2 ohm 1/8W	R558	06S70072F75	8.2K ohm 1/4W
R270	06S53331F40	2.2 ohm 1/8W	R559	06S64995F77	10K ohm
R271	06S53331F40	2.2 ohm 1/8W			
R272	06S53331F40	2.2 ohm 1/8W	R560	06S64995F77	10K ohm
R275	06S53331F40	2.2 ohm 1/8W	R561	06S64995F77	10K ohm
R501	06S64995F41	330 ohm	R562	06S64995F77	10K ohm
R502	06S64995F89	33K ohm	R563	06S64995F77	10K ohm
R503	06S64995F93	47K ohm	R564	06S70072F53	1K ohm 1/4W
R504	06S64995F93	47K ohm			
R505	06S64995F93	47K ohm	△ R565	06S64996F02	100K ohm
R506	06S64995F69	4.7K ohm	△ R566	06S64995F77	10K ohm
R507	06S64995F45	470 ohm	△ R567	06S64995F93	47K ohm
□ R507	06S64995F53	1K ohm	R568	06S64995F85	22K ohm
△ R507	06S64995F53	1K ohm	R569	06S64995F85	22K ohm
R508	06S64995F85	22K ohm			
R509	06S64995F93	47K ohm	R570	06S53330F85	22K ohm 1/8W
R510	06S64995F93	47K ohm	R571	06S70072F37	220 ohm 1/4W
△ R512	06S64995F61	2.2K ohm	R573	06S64995F93	47K ohm
□ R513	06S64995F61	2.2K ohm	R574	06S64996F02	100K ohm
			R577	06S64995F93	47K ohm
			R579	06S64995F53	1K ohm
			R580	06S64995F53	1K ohm
			R581	06S64995F53	1K ohm
			R582	06S64995F53	1K ohm
			R583	06S64995F53	1K ohm
			R584	06S64995F53	1K ohm

Notes : ○: For TDM-7531R Model only, □: For TDM-7532R Model only,
 △: For TDM-7535R Model only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
			Front P. C. Board		
			IC's		
△	R585	06S64995F53 1K ohm	IC401	51T55492W01	LC75850W
	R586	06S64995F53 1K ohm	IC402	51T55246W02	RPM-638CBL
	R587	06S64996F10 220K ohm			
	R588	06S64995F53 1K ohm			
	R589	06S70072F26 75 ohm 1/4W			
			Transistors		
○	R590	06S64995F77 10K ohm	△ Q451	48T63788F04	CP., 2SD1328
	R591	06S64995F61 2.2K ohm	△ Q452	48T63788F04	CP., 2SD1328
	R593	06S64995F53 1K ohm	△ Q453	48T63788F04	CP., 2SD1328
	R594	06S64995F53 1K ohm	△ Q454	48T63788F04	CP., 2SD1328
	R595	06S64995F53 1K ohm	△ Q455	48T63788F04	CP., 2SD1328
□	R596	06S64995F53 1K ohm	△ Q456	48T63788F04	CP., 2SD1328
	R801	06S70072F69 4.7K ohm 1/4W			
	R801	06S70072F69 4.7K ohm 1/4W			
	R801	06S70072F66 3.6K ohm 1/4W			
	R803	06S53330F69 4.7K ohm 1/8W			
			Diodes		
△	R804	06S53330F77 10K ohm 1/8W	D401	48T64134F01	CP., DA204K
	R805	06S70072F45 470 ohm 1/4W	D402	48T64134F01	CP., DA204K
	R806	06S64995F77 10K ohm	D403	48T64134F01	CP., DA204K
	R807	06S70072F61 2.2K ohm 1/4W	D404	48T64134F01	CP., DA204K
	R808	06S64995F77 10K ohm			
			LED's		
○	R809	06S70072F03 6.8 ohm 1/4W	△ LD401	48T65477W01	CP., SML-010DT2(ORG)
	R810	06S70072F03 6.8 ohm 1/4W	△ LD402	48T65477W03	CP., SML-010PT(GRN)
	R811	06S70072F03 6.8 ohm 1/4W	△ LD403	48T65477W02	CP., SML-010LT(RED)
	R812	06S64995F77 10K ohm			
	R813	06S64995F77 10K ohm			
			Switches		
□	R814	06S70072F57 1.5K ohm 1/4W	S410	40T55656W03	CP. Tact, SKQMAJ (POW)
	R815	06S53330F77 10K ohm 1/8W	○ S411	40T55656W03	CP. Tact, SKQMAJ (AUDIO DN)
	R816	06S64996F02 100K ohm	□ S411	40T55656W03	CP. Tact, SKQMAJ (AUDIO DN)
	R817	06S70072F40 300 ohm 1/4W	○ S412	40T55656W03	CP. Tact, SKQMAJ (TUNER BAND / PTY)
	R818	06S70072F57 1.5K ohm 1/4W	□ S412	40T55656W03	CP. Tact, SKQMAJ (TUNER BAND / PTY)
△	R819	06S70072F57 1.5K ohm 1/4W	△ S412	40T55656W03	CP. Tact, SKQMAJ (TUNER / BAND)
	R820	06S70072F57 1.5K ohm 1/4W	○ S414	40T55656W03	CP. Tact, SKQMAJ (1)
	R821	06S64995F77 10K ohm	□ S414	40T55656W03	CP. Tact, SKQMAJ (1 / DOLBY B)
	R822	06S70072F57 1.5K ohm 1/4W	△ S414	40T55656W03	CP. Tact, SKQMAJ (1 / DOLBY B-C)
	R824	06S70072F57 1.5K ohm 1/4W	○ S415	40T55656W03	CP. Tact, SKQMAJ (2)
			□ S415	40T55656W03	CP. Tact, SKQMAJ (2 / P.S DN)
□	R825	06S64995F77 10K ohm	△ S415	40T55656W03	CP. Tact, SKQMAJ (2 / P.S DN)
	R831	06S64995F65 3.3K ohm	○ S416	40T55656W03	CP. Tact, SKQMAJ (3)
	R832	06S64995F53 1K ohm	□ S416	40T55656W03	CP. Tact, SKQMAJ (3 / P.S UP)
	R833	06S70072F61 2.2K ohm 1/4W	△ S416	40T55656W03	CP. Tact, SKQMAJ (3 / P.S UP)
	R834	06S64995F77 10K ohm	S417	40T55656W03	CP. Tact, SKQMAJ (6 / PROG)
△	R835	06S70072F41 330 ohm 1/4W	△ S418	40T55571W01	CP. Tact, SKQAXX(AUDIO DN)
	R836	06S53330F73 6.8K ohm 1/8W	S420	40T55656W03	CP. Tact, SKQMAJ (RDS)
	VR201	18T15356W13 Variable, 10K ohm			
	VR201	18T15356W13 Variable, 10K ohm			
	VR202	18T15356W13 Variable, 10K ohm			
△	VR202	18T15356W13 Variable, 10K ohm			

Notes : ○: For TDM-7531R Model only, □: For TDM-7532R Model only,
△: For TDM-7535R Model only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
			Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)		
○	S421	40T55656W03 CP. Tact, SKQMAJ (TAPE · PLAY / PAUSE)	R401	06S64995F79	12K ohm
	○ S422	40T55656W03 CP. Tact, SKQMAJ (AUDIO UP)	R402	06S64995F77	10K ohm
	□ S422	40T55656W03 CP. Tact, SKQMAJ (AUDIO UP)	R403	06S64995F77	10K ohm
	S423	40T55656W03 CP. Tact, SKQMAJ (MODE / LOUD)	R404	06S64995F77	10K ohm
	S425	40T55656W03 CP. Tact, SKQMAJ (DISC · PLAY / PAUSE)	R405	06S64995F77	10K ohm
○	S426	40T55656W03 CP. Tact, SKQMAJ (4)	R406	06S64995F53	1K ohm
	□ S426	40T55656W03 CP. Tact, SKQMAJ (4 / B.SKIP)	R407	06S64995F79	12K ohm
	△ S426	40T55656W03 CP. Tact, SKQMAJ (4 / B.SKIP)	R408	06S64995F71	5.6K ohm
	S427	40T55656W03 CP. Tact, SKQMAJ (5)	R411	06S64995F55	1.2K ohm
	△ S428	40T55571W01 CP. Tact, SKQAXX (AUDIO UP)	R412	06S64995F57	1.5K ohm
○	S430	40T55656W03 CP. Tact, SKQMAJ (EJECT)	R413	06S64995F61	2.2K ohm
	○ S431	40T55656W03 CP. Tact, SKQMAJ (T.INFO / MIX)	R414	06S64995F65	3.3K ohm
	□ S431	40T55656W03 CP. Tact, SKQMAJ (T.INFO / MIX)	R415	06S64995F71	5.6K ohm
	△ S431	40T55656W03 CP. Tact, SKQMAJ (SCAN / MIX)	R416	06S64995F78	11K ohm
	S432	40T55656W03 CP. Tact, SKQMAJ (M.S CD-DN / REW)	R417	06S64995F89	33K ohm
○	S433	40T55656W03 CP. Tact, SKQMAJ (TUNE-A.MEMO / REPEAT)	R421	06S64995F55	1.2K ohm
	S434	40T55656W03 CP. Tact, SKQMAJ (M.S CD-UP / FF)	R422	06S64995F57	1.5K ohm
	△ S435	40T55656W03 CP. Tact, SKQMAJ (T.INFO)	R423	06S64995F61	2.2K ohm
	△ S436	40T55656W03 CP. Tact, SKQMAJ (PTY)	R424	06S64995F65	3.3K ohm
			R425	06S64995F71	5.6K ohm
			R426	06S64995F78	11K ohm
			R427	06S64995F89	33K ohm
			R431	06S64995F55	1.2K ohm
			R432	06S64995F57	1.5K ohm
			R433	06S64995F61	2.2K ohm
			R434	06S64995F65	3.3K ohm
			△ R435	06S64995F71	5.6K ohm
			△ R436	06S64995F78	11K ohm
			R441	06S64995F53	1K ohm
			R442	06S64995F53	1K ohm
			R443	06S64995F53	1K ohm
			R444	06S64995F53	1K ohm
			R445	06S64996F04	120K ohm
			△ R451	06S70072F12	20 ohm 1/4W
			R452	06S70072F04	8.2 ohm 1/4W
			R453	06S70072F13	22 ohm 1/4W
			R454	06S70072F13	22 ohm 1/4W
			R455	06S70072F13	22 ohm 1/4W
			△ R456	06S70072F17	33 ohm 1/4W
			R457	06S70072F15	27 ohm 1/4W
			R458	06S70072F13	22 ohm 1/4W
			△ R459	06S70072F16	30 ohm 1/4W
			△ R460	06S70072F13	22 ohm 1/4W
			R461	06S70072F13	22 ohm 1/4W
			△ R463	06S64995F61	2.2K ohm
			△ R464	06S64995F61	2.2K ohm
			△ R465	06S64995F61	2.2K ohm
			△ R466	06S64995F61	2.2K ohm
			△ R467	06S64995F61	2.2K ohm
			Capacitors		
C	C401	08S82122F53 CP., 470pF			
	E401	23T25191W42 CP., ELY. 22μF / 6.3V			
	C402	08T15399W03 CP., 0.047μF			

Notes : ○: For TDM-7531R Model only, □: For TDM-7532R Model only,
△: For TDM-7535R Model only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
△ R468	06S64995F61	2.2K ohm	E1206	23S61523F17	ELY., 4.7μF / 25V
R469	06S70072F13	22 ohm 1/4W	or	23T55402W20	ELY., 4.7μF / 25V
△ R472	06S70072F43	390 ohm 1/4W	Resistors (All resistors are chip 1/8W±5% unless otherwise noted.)		
R473	06S70072F43	390 ohm 1/4W			
△ R476	06S70072F17	33 ohm 1/4W	R1201	06S53330F29	100 ohm
R477	06S70072F15	27 ohm 1/4W	R1202	06S53330F65	3.3K ohm
R478	06S70072F13	22 ohm 1/4W	R1203	06S53330F32	130 ohm
△ R479	06S70072F17	33 ohm 1/4W	R1204	06S53330F32	130 ohm
△ R480	06S70072F13	22 ohm 1/4W	R1205	06S64996F14	330K ohm 1/10W
R481	06S70072F13	22 ohm 1/4W	R1206	06S64996F14	330K ohm 1/10W
△ R482	06S70072F26	75 ohm 1/4W	R1207	06S64995F78	11K ohm 1/10W
R483	06S64996F02	100K ohm	R1208	06S53330F78	11K ohm
R485	06S70072F13	22 ohm 1/4W	R1209	06S53330F81	15K ohm
○ GR Control P. C. Board			R1210	06S53330F81	15K ohm
IC's			R1211	06S53330F65	3.3K ohm
IC1201	51T64606F02	TA7705F	○△ GR Control P. C. Board		
IC1701	51T25621W02	AN6275NK			
Transistor / Diode			IC's / Transistors		
Q1701	48T84366F05	2SB1243	IC1501	51T25621W02	IC, AN6275NK
D1201	48T44813F01	Diode, MA165TA	IC1502	51T67915F01	IC, M51143AL
Capacitors			Q1501	48T84366F05	2SB1243
C1201	08S53332F31	CP., 470pF	Q1502	48T94606F12	CP., DTC144TU
E1201	23S82482F02	ELY., 100μF / 16V	Capacitors		
C1202	08S53332F31	CP., 470pF	E1501	23S61524F32	ELY., 1μF / 50V
E1202	23S61523F12	ELY., 10μF / 16V	or	23T55521W34	ELY., 1μF / 50V
or	23T55402W15	ELY., 10μF / 16V	C1502	08T35374W01	CP., 0.1μF
C1203	08S53332F31	CP., 470pF	C1503	08T35374W01	CP., 0.1μF
E1203	23S61523F07	ELY., 47μF / 6.3V	C1504	08T35374W01	CP., 0.1μF
or	23T55402W07	ELY., 47μF / 6.3V	C1505	08S65128F15	CP., 15pF
C1204	08S53332F31	CP., 470pF	Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)		
E1204	23S61523F07	ELY., 47μF / 6.3V			
or	23T55402W07	ELY., 47μF / 6.3V	R1501	06S64995F77	10K ohm
C1205	08S53332F48	CP., 0.012μF	R1502	06S64995F77	10K ohm
E1205	23S61523F17	ELY., 4.7μF / 25V	R1503	06S64996F10	220K ohm
or	23T55402W20	ELY., 4.7μF / 25V	R1504	06S64996F26	1M ohm
C1206	08S53332F48	CP., 0.012μF			

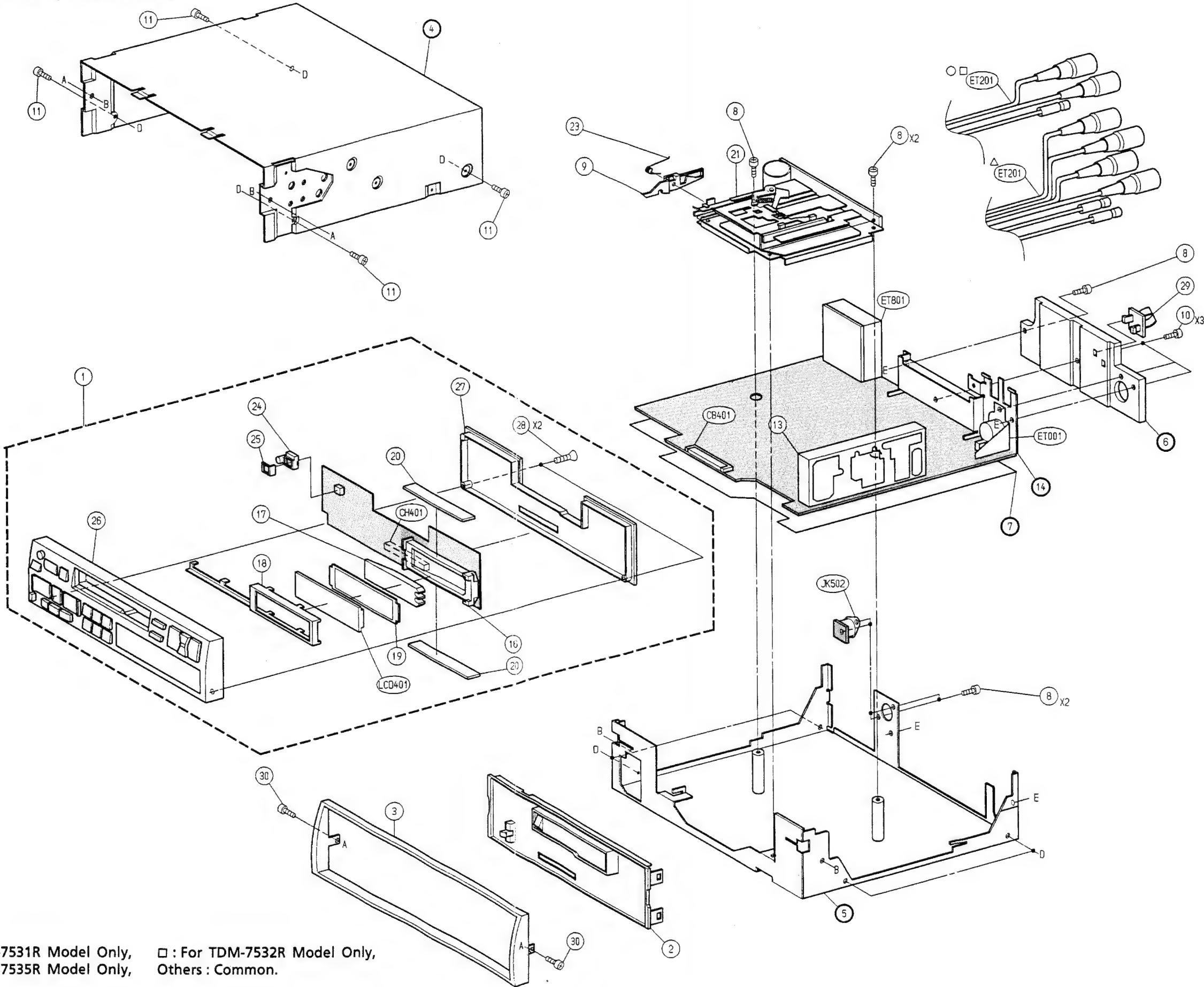
Notes : ○: For TDM-7531R Model only, □: For TDM-7532R Model only,
 △: For TDM-7535R Model only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
R1505	06S64996F18	470K ohm	Miscellaneous		
R1506	06S64996F01	91K ohm			
□△ GR Audio P. C. Board			○ CB401	09T75038W14	16Pin Connector
IC / Diode			□ CB401	09T75038W14	16Pin Connector
IC1201	51T15146W01	IC, TA7705P	△ CB401	09T75038W16	16Pin Connector
D1201	48T44813F01	MA165TA	CH401	09T75039W16	16Pin Connector
Capacitors			ET001	09T55211W01	Antenna Receptacle
E1201	23S61524F13	ELY., 10μF / 16V	○ ET201	01T55244W05	Assy., Connectors
or	23T55521W15	ELY., 10μF / 16V	(Rear Output RCA Connectors / Remote Turn-On Lead)		
C1202	08S72783F27	CP., 220pF			
E1202	23S61524F08	ELY., 100μF / 6.3V	□ ET201	01T55244W05	Assy., Connectors
or	23T55521W07	ELY., 100μF / 6.3V	(Rear Output RCA Connectors / Remote Turn-On Lead)		
C1203	08S72783F27	CP., 220pF			
E1203	23S61524F08	ELY., 100μF / 6.3V	△ ET201	01T55244W07	Assy., Connectors
or	23T55521W07	ELY., 100μF / 6.3V	(Front / Rear Output RCA Connectors / Audio Interrupt In Lead / Remote Turn-On Lead)		
C1204	08S72783F27	CP., 220pF			
E1204	23S82482F02	ELY., 100μF / 16V	ET801	01T75292W01	Assy., ISO Connector
or	23T55521W19	ELY., 100μF / 16V	(Open / Speaker Output / Power) Head		
C1205	08S72783F27	CP., 220pF			
E1205	23S61524F18	ELY., 4.7μF / 25V	○ HD1101	88T10373W02	Head
or	23T55521W20	ELY., 4.7μF / 25V	□ HD1101	88T15971W02	Head
E1206	23S61524F18	ELY., 4.7μF / 25V	△ HD1101	88T15971W02	Head
or	23T55521W20	ELY., 4.7μF / 25V	○ M1501	01V53200W99	Assy., Main Motor
C1208	08T35122W02	TF, 0.012μF	(13.2V-105mA)		
C1209	08T35122W02	TF, 0.012μF			
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)			□ M1501	01V51800W42	Assy., Main Motor
R1201	06S53330F29	100 ohm 1/8W	(13.2V-105mA)		
R1202	06S53330F32	130 ohm 1/8W			
R1203	06S53330F32	130 ohm 1/8W	△ M1501	01V51800W42	Assy., Main Motor
R1204	06S64996F14	330K ohm	(13.2V-105mA)		
R1205	06S64996F14	330K ohm			
R1208	06S64995F79	12K ohm	JK502	09T16653W01	DIN Connector
R1209	06S64995F79	12K ohm	LCD401	65T75146W01	LCD Display
R1210	06S64995F81	15K ohm	PT1501	51T15144W01	Sensor, Photo ON2170-R
R1211	06S64995F81	15K ohm	S1501	40T15222W01	Switch, Detector (PACK IN)
R1212	06S64995F65	3.3K ohm	S1502	40T15382W01	Switch, Detector (PACK DOWN)
R1213	06S53330F65	3.3K ohm 1/8W	S1503	40T15382W01	Switch, Detector (METAL)
R1214	06S53330F85	22K ohm 1/8W	SD1501	01T10369W02	Assy., Eject Solenoid
R1215	06S64995F85	22K ohm	SD1502	01T15249W01	Assy., Play Solenoid
			SD1503	01T10371W01	Assy., RF Solenoid

Notes : ○: For TDM-7531R Model only, □: For TDM-7532R Model only,
 △: For TDM-7535R Model only, Others : Common.

Exploded View (Cabinet)

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Note : ○ : For TDM-7531R Model Only, □ : For TDM-7532R Model Only,
△ : For TDM-7535R Model Only, Others : Common.

Cabinet Assembly Parts List

Note : No parts number on parts list are not supplied.

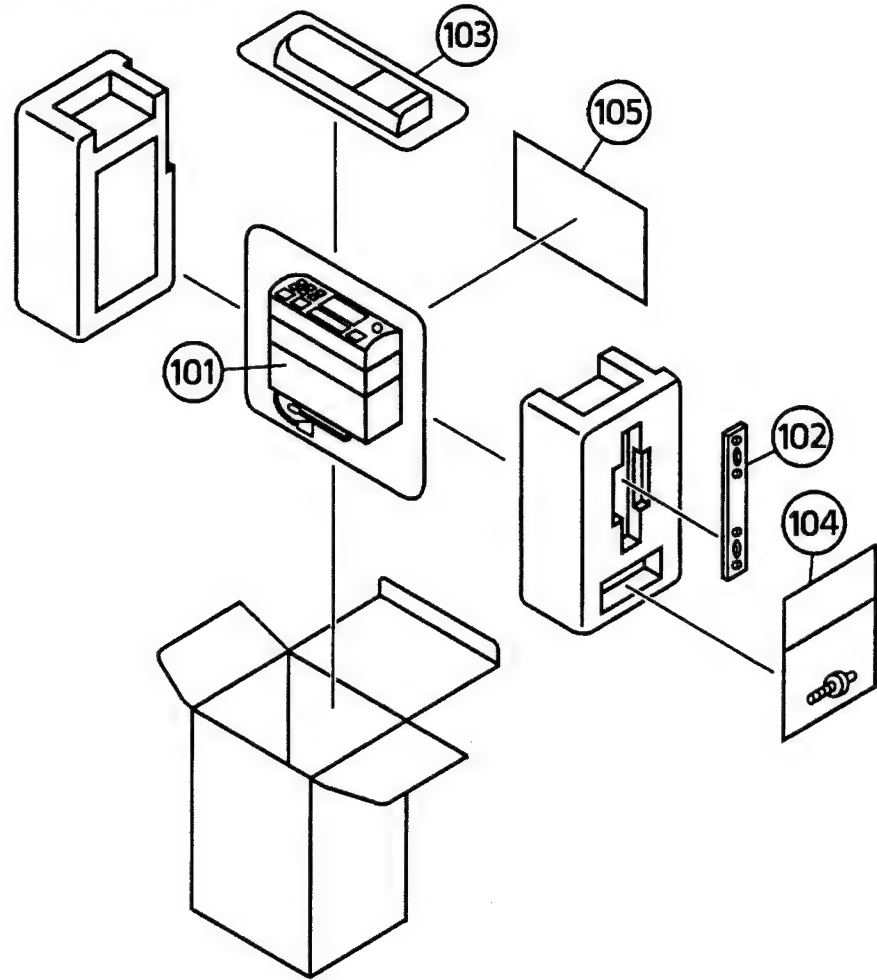
Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
○	1	3-B	01V71800W61	Assy., Nose Unit			
□	1	3-B	01V71800W56	Assy., Nose Unit			
△	1	3-B	01V71700W43	Assy., Nose Unit			
	2	5-E	13C70374W01	Assy., Front Escutcheon			
	3	5-C	33C70276W01	Assy., Face Plate			
	8		03S44205G29	Screw, Pan (M2.6×6)			
	9	2-D	45C61079W01	Lever, Door			
	10	2-G	03S38013W02	Screw, Pan (M2.6×14)			
	11		03S38013W24	Screw, Pan (M2.6×6)			
	13	3-E	77B60578W01	FM/MW/LW Tuner Unit, MB4R3010 (FE001)			
	16	4-D	15B70308W01	Case, LCD			
	17	3-C	61A70307W01	Lens, LCD			
	18	3-C	15B70852W01	Cover, LCD			
	19	4-D	26A70309W01	Reflector, Sheet			
	20		75T75143W01	Rubber, Connector			
○	21	2-E	81D50232W01	Cassette Deck, GR75H110			
□	21	2-E	81D40887W02	Cassette Deck, GR75H120			
△	21	2-E	81D40887W02	Cassette Deck, GR75H120			
	23	1-D	41A20424W01	Spring, Door			
	24	3-C	43A70639W01	Spacer, Remote			
	25	3-C	07A71469W01	Bracket, Remote			
○	26	3-B	13D70279W09	Assy., Nosepiece			
□	26	3-B	13D70279W06	Assy., Nosepiece			
△	26	3-B	13D70279W03	Assy., Nosepiece			
	27	3-D	13D70291W01	Nose, Bottom			
	28	3-D	03S68555F39	Screw, Countersink (M1.7×10)			
	29	2-G	15A70387W01	Holder, Antenna			
	30		03S38013W13	Screw, Bind (M2.6×6)			

Notes : ○: For TDM-7531R Model only, □: For TDM-7532R Model only,
△: For TDM-7535R Model only, Others : Common.

Packing Assembly Parts List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
101	15D50406W01	Case, Inner			
102	07B64552F01	Bracket, Strap Receiver			
103	15D60773W01	Carring Case			
104-1	02B47353F01	Nut, Hex. (M5)			
104-2	03S72235F13	Screw, Countersink (M5×8)			
104-3	46A42363F01	Stud, Bolt			
104-4	36A11113W01	Cap, Rubber (A)			
104-5	03A11112W01	Bolt, Hex. (M5)			
104-6	01T75363W01	JASO / ISO Antenna Adaptor			
105	68P61329W47	Owner's Manual			

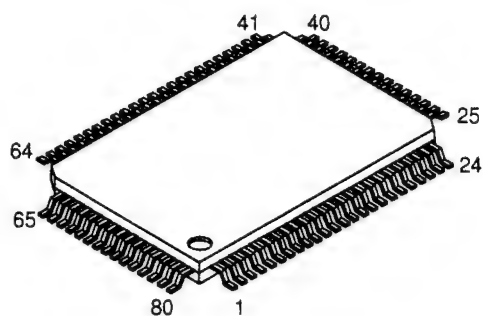
Packing Method View



Semi - Conductor Lead Identifications

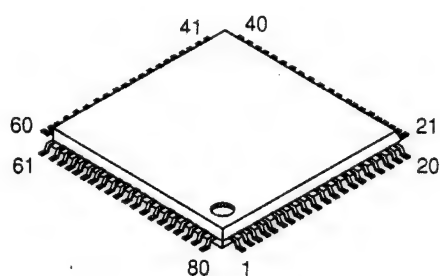
Note : For the parts not mentioned, refer to the Schematic Diagram.

45609W26 : IC501



PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	NOSE ON	I	21	NC	—	41	LED IND	O	61	GND	—
2	AVREF	I	22	PWR IC ON	O	42	LCD CLK	O	62	GND	—
3	V _{DD}	—	23	POWER CONT	O	43	GRN/ORG	O	63	GND	—
4	V _{DD}	—	24	A.MUTE	O	44	LCD DATA	O	64	GND	—
5	AV REF OUT	O	25	NC	—	45	LCD INH	O	65	GND	—
6	PLAY SOL	O	26	NC	—	46	DTS MUTE	I	66	GND	—
7	RF SOL	O	27	NC	—	47	ACC+5	I	67	GND	—
8	EJECT SOL	O	28	IN INT	I	48	CHG D-IN	I	68	GND	—
9	MOTOR CONT	O	29	CHG D-OUT	O	49	REMOCON	I	69	GND	—
10	O.MOTOR	O	30	E.VOL.CLK	O	50	DTS STATUS	I	70	GND	—
11	FOR/REV	O	31	E.VOL.DATA	O	51	DTS CMD	O	71	GND	—
12	O.FAST	O	32	NC	—	52	DTS SCK	O	72	GND	—
13	PACK IN	I	33	GND	—	53	BATT+5V	I	73	GND	—
14	M.S.DET	I	34	NC	—	54	GND	—	74	GND	—
15	GND	—	35	DOLBY C	O	55	GND	—	75	GND	—
16	GND	—	36	DOLBY B	O	56	NC	—	76	PACK DOWN	I
17	GND	—	37	LCD CE	O	57	GND	—	77	RUN DET	I
18	AREA 0	I	38	DTS CE	O	58	X1	I	78	KEY-IN AD0	I
19	AREA 1	I	39	DTS START	O	59	X2	O	79	KEY-IN AD1	I
20	TP ALARM	O	40	NOSE POWER	O	60	RESET	I	80	KEY-IN AD2	I

75099W04 : IC504

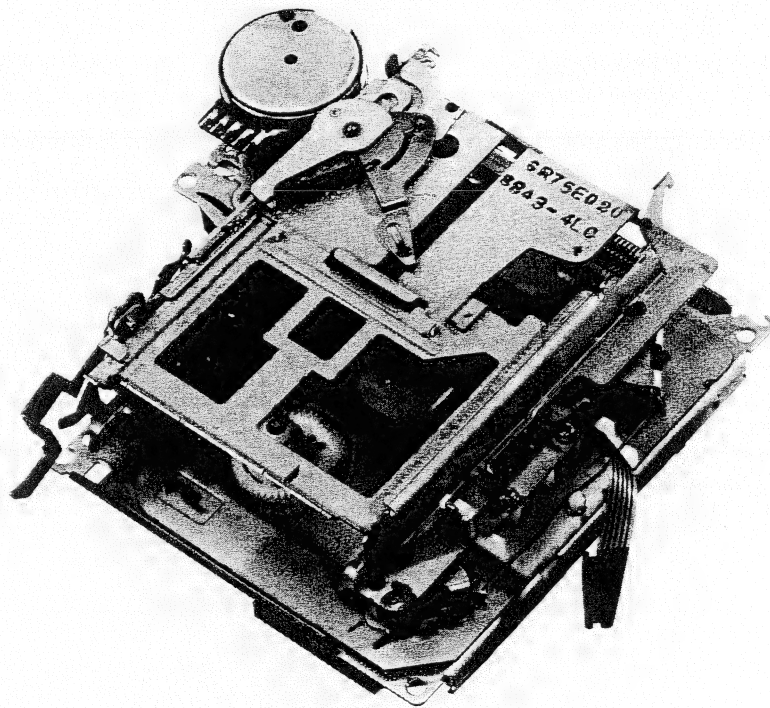


PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	LW	O	21	NC	—	41	NC	—	61	RDS CLK	I
2	LO/DX	O	22	NC	—	42	NC	—	62	RDS DATA	I
3	NC	—	23	NC	—	43	NC	—	63	DTS CE	I
4	AVSS	—	24	NC	—	44	NC	—	64	NC	—
5	LPF SW	O	25	NC	—	45	NC	—	65	NC	—
6	IF MUTE	O	26	NC	—	46	NC	—	66	NC	—
7	AVREF ₁	I	27	NC	—	47	NC	—	67	50K REF	O
8	PLL UP	—	28	NC	—	48	NC	—	68	V _{DD}	—
9	NC	—	29	NC	—	49	NC	—	69	X2	O
10	NC	—	30	NC	—	50	NC	—	70	X1	I
11	PLL CLK	O	31	NC	—	51	NC	—	71	V _{SS}	—
12	PLL DATA	O	32	NC	—	52	NC	—	72	NC	—
13	PLL CE	O	33	V _{SS}	—	53	NC	—	73	PLL D-IN	I
14	DTS MUTE	O	34	NC	—	54	NC	—	74	AV _{DD}	—
15	DTS START	I	35	NC	—	55	NC	—	75	AVREF ₀	I
16	DTS CMD	I	36	NC	—	56	NC	—	76	S.METER	I
17	DTS STATUS	O	37	NC	—	57	NC	—	77	ADJ-ON	I
18	DTS CLOCK	I	38	NC	—	58	FM/AM	O	78	MULTI PATH	I
19	NC	—	39	NC	—	59	AUDIO IN	I	79	ST	I
20	NC	—	40	NC	—	60	RESET	I	80	SD	I

ALPINE SERVICE MANUAL

Exploded View & Parts List For Cassette Deck Mechanism

ADDENDUM & REVISED



GR SERIES

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List of Usable Lock Washers

	SIZE	PARTS NO.	QUANTITY
1	(M1.2 × 3.5 × 0.25)	04A41345P01	8
2	(M1.7 × 3.5 × 0.25)	04A41345P02	1
3	(M2.1 × 5 × 0.25)	04A41345P06	1
4	(M1.2 × 2.5 × 0.25)	04A41345P11	8
5	(M1.7 × 3.5 × 0.35)	04A41345P12	2
6	(M1.2 × 3.5 × 0.35)	04A41345P15	1
7	(M1 × 2.5 × 0.25)	04A41345P17	1
8	(M2.6 × 5 × 0.25)	04A41345P29	1
9	(M3.1 × 8 × 0.05)	04A41345P30	1
10	(M1.7 × 3 × 0.25)	04A41345P31	1
11	(M3.1 × 5 × 0.35)	04A41345P32	2

List of Usable Oil

- 1) Molykote E paste
- 2) Grease EM-30L
- 3) Grease FLOIL 425A

List of Usable Jigs

- 1) GR bottom gear jig (Part No. 44A20788W01)
- 2) Head height adjustment gauge
(M-300 or AT-500)

Memo

Disassembly, Assembly and Replacement of Functional Parts

1. Disassembly and Assembly of Bottom Cover

- (1) Turn the mechanism around as shown in Figure 1.
- (2) Remove M1 lock washer ① as shown in Figure 1.
- (3) Remove three screws ② as shown in Figure 1.
- (4) Lift the bottom cover slowly from the position ①-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
- (5) When remounting the bottom cover, first turn the front of the mechanism up as shown in Figure 2.
- (6) Slide the slider in the direction ①-2 as shown in Figure 2.
- (7) Push down the cassette holder in the direction ①-3 as shown in Figure 2.
- (8) Pull the door pin in the direction ①-4 so that the mechanism is locked in as shown in Figure 2.
- (9) Turn the mechanism around as shown in Figure 3.

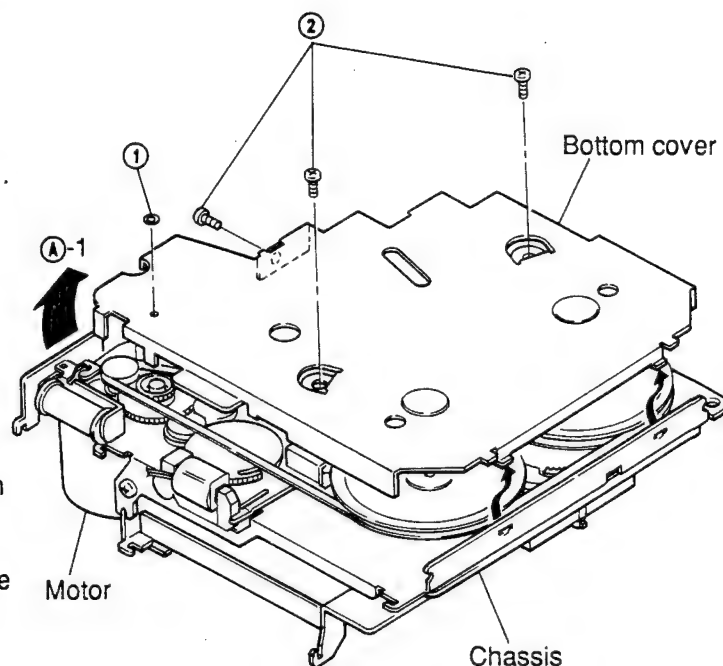


Figure 1

- (10) Pull the automatic metal lever in the direction ①-5 and the RF solenoid chip in the direction ①-6 as shown in Figure 3.
- (11) Insert the hooks of the bottom cover into the chassis in the direction ①-7, and then join the part ①-8 of the bottom cover to the chassis slowly, making sure that the 3 points indicated with the straight lines in the Figure 3 are fitted properly.

If there are troubles in mounting the bottom cover, do not apply force but remove the bottom cover once again and check the positions of the individual parts. (Refer to Figure 3.)

- (12) Since the hooks marked ①-8 will be lifted slightly as shown in Figure 4, insert the jig through the hole ①-9, and fix it turning the jig slightly.

Instead of operation (12), turn the gear nose slowly with a precision screwdriver etc., taking care not to damage it.

After 2 to 3 turns, it will click into place.

(Refer to Figure 4 and 5.)

- (13) Fix the screws and the lock washer that have been removed.

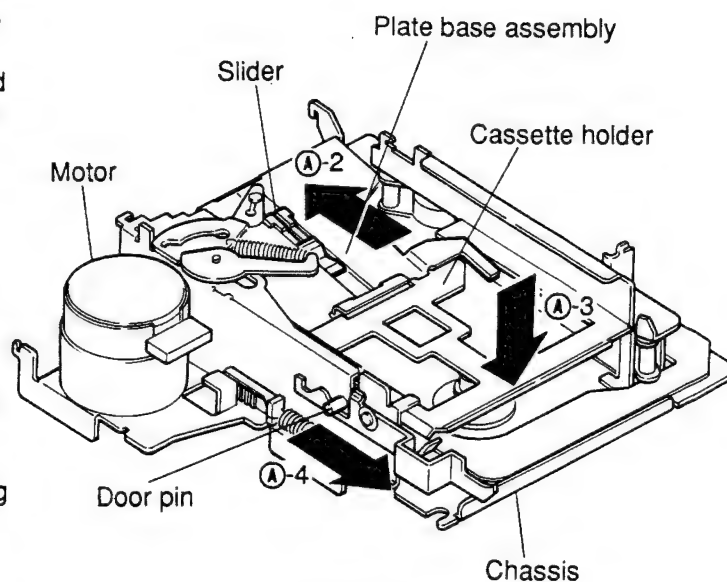


Figure 2

- (14) Insert the jig into the hole ①-9 as shown in Figure and rotate the eject solenoid counterclockwise about 20 times, pulling it in the direction ①-10 with the finger. Then the eject operation is completed. Instead of operation (14), the eject operation can be performed by mounting the mechanism to the product. (Refer to Figures 4 and 5.)

Note: Do not reuse the used lock washers for mounting.
When turning the mechanism, be careful not to drop the gear and the flywheel.
Fasten the three screws with a fastening torque of 6 kg/cm.

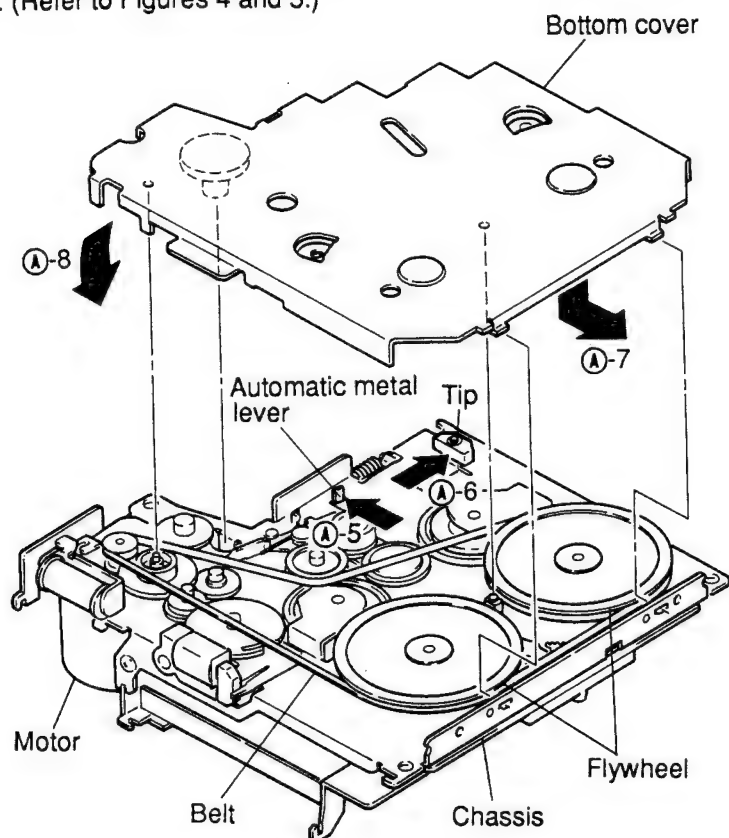


Figure 3

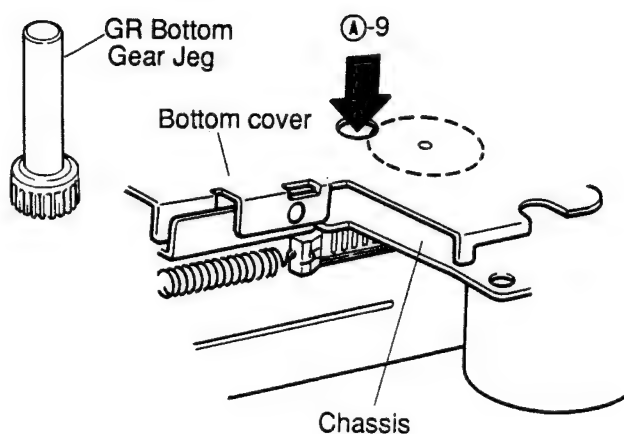


Figure 4

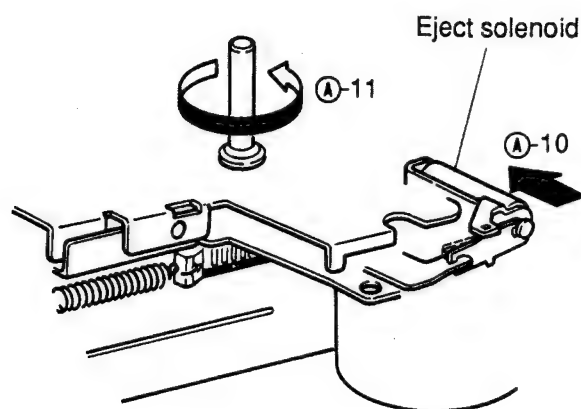


Figure 5

2. Replacement of the bottom cover mounting parts

a. Replacement of the eject gear

- (1) Remove M1.2 lock washer ③ as shown in Figure 6.
- (2) Pull the eject pinion out of the eject gear and remove the eject gear as shown in Figure 6.
- (3) Apply the molykote E paste to the section ⑧-1, and mount the eject gear following the removal steps in the reverse order. After replacement is finished, make sure that the gear rotates smoothly. (Refer to Figure 6.)

Note: Do not reuse the used lock washers for remounting.
Take care to avoid damage by piercing and tearing.

b. Replacement of the RF solenoid

- (1) Remove two solders ④ and remove the RF solenoid from the bottom cover by pulling it up as shown in Figure 6.
- (2) Replace the solenoid with a new one, and remount it following the removal steps in the reverse order as shown in Figure 6.

Note: When removing solder ④, set the temperature of the soldering iron to $350^{\circ} \pm 10^{\circ}$ and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged.

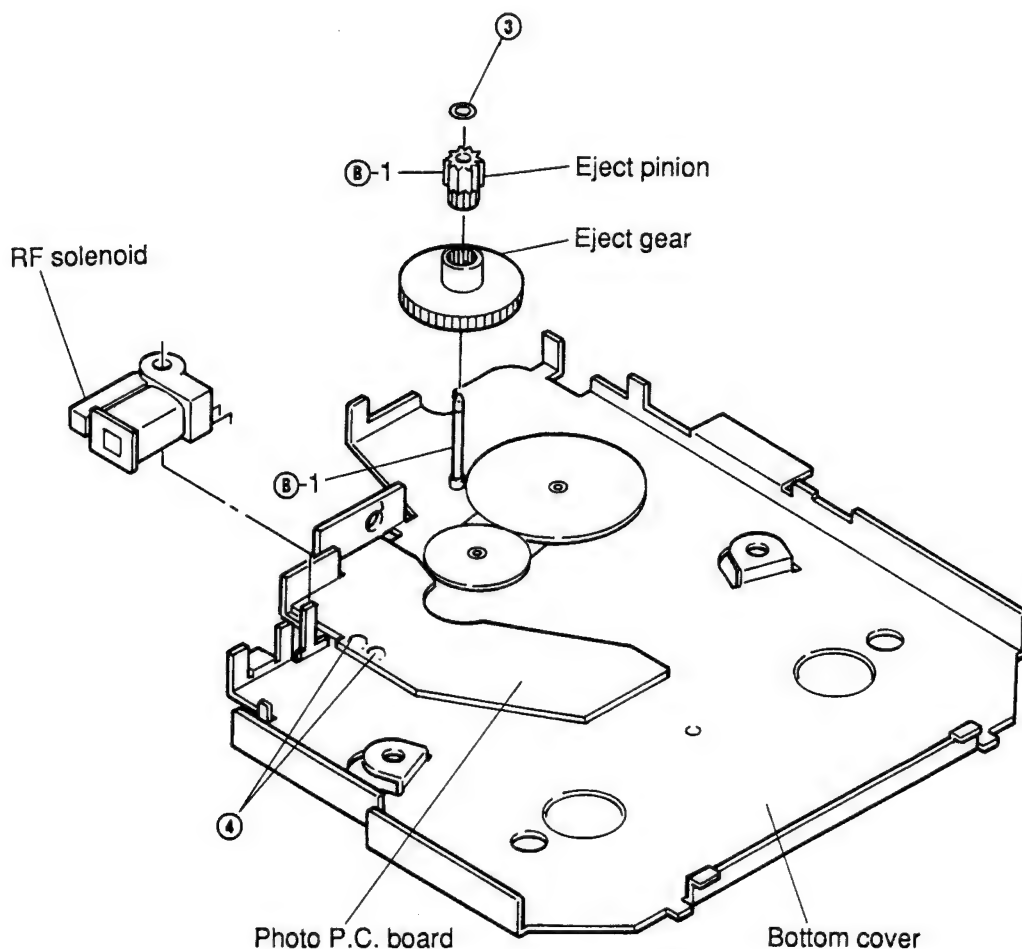


Figure 6

c. Replacement of the photo sensor

- (1) Remove four solders ⑤ as shown in Figure 7.
- (2) Remove the photo guide together with the photo sensor from the photo PC board as shown in Figure 7.
- (3) Insert the new photo sensor into the photo guide, and bend the legs of the photo sensor in the direction marked ⑧-2 as shown in Figure 7.
- (4) Insert the photo guide into the PC board and solder the legs so that the photo sensor is set as indicated by [] in Figure 7.

Note: When using the soldering iron, set the temperature of the soldering iron to $350^{\circ} \pm 10^{\circ}$ and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged. Also take care that the photo guide is properly fixed and straight.

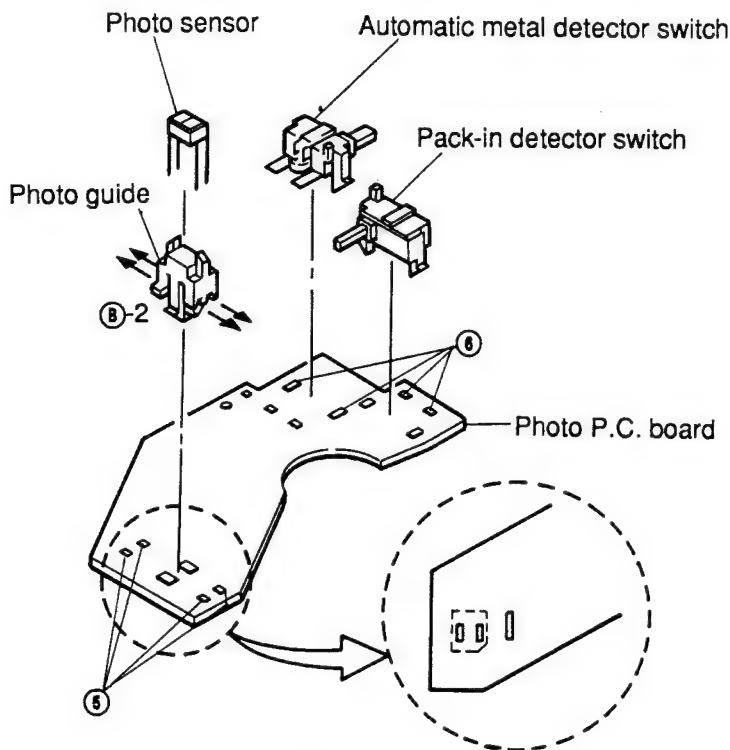


Figure 7

d. Replacement of the detector switch
(Automatic metal packing ???)

- (1) Remove 2 solders ⑥ with which the the switch is fixed as shown in Figure 7.
- (2) Prepare the terminals of the switch of the new solder as shown in Figure 8.
- (3) After that, insert the switch into the photo PC board, and solder the terminals.

Note: When using the soldering iron, refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Also take care that the switch guide is properly fixed and straight.

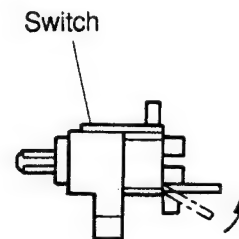


Figure 8

3. Replacement of the mounting parts on the rear of the main chassis

a. Replacement of the belt

- (1) After removing the bottom cover, remove the belt.
- (2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 9.

Note: When fixing the belt, make sure that it is not twisted or dirty. When removing the belt, do not turn up the front of the chassis.

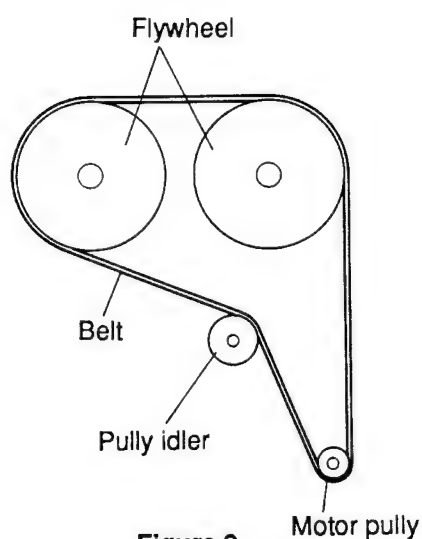


Figure 9

b. Replacement of the motor

- (1) After removing the belt, remove spring ⑦ as shown in Figure 10.
- (2) Remove solder ⑧-1, and remove the parallel wire (5P) from the control PC board as shown in Figure 11.
- (3) Remove two screws ⑨ and ⑩, and remove the motor, taking care not to damage the motor idler gear. (Refer to Figure 10.)
- (4) Mount the new motor following the removal steps in the reverse order.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Since the parallel wire is very easily damaged, handle it with care.

Fasten the two screws with a fastening torque of 3 kg.cm.

*When inserting the clutch spring, be careful of the inserting direction as shown in the Figure.

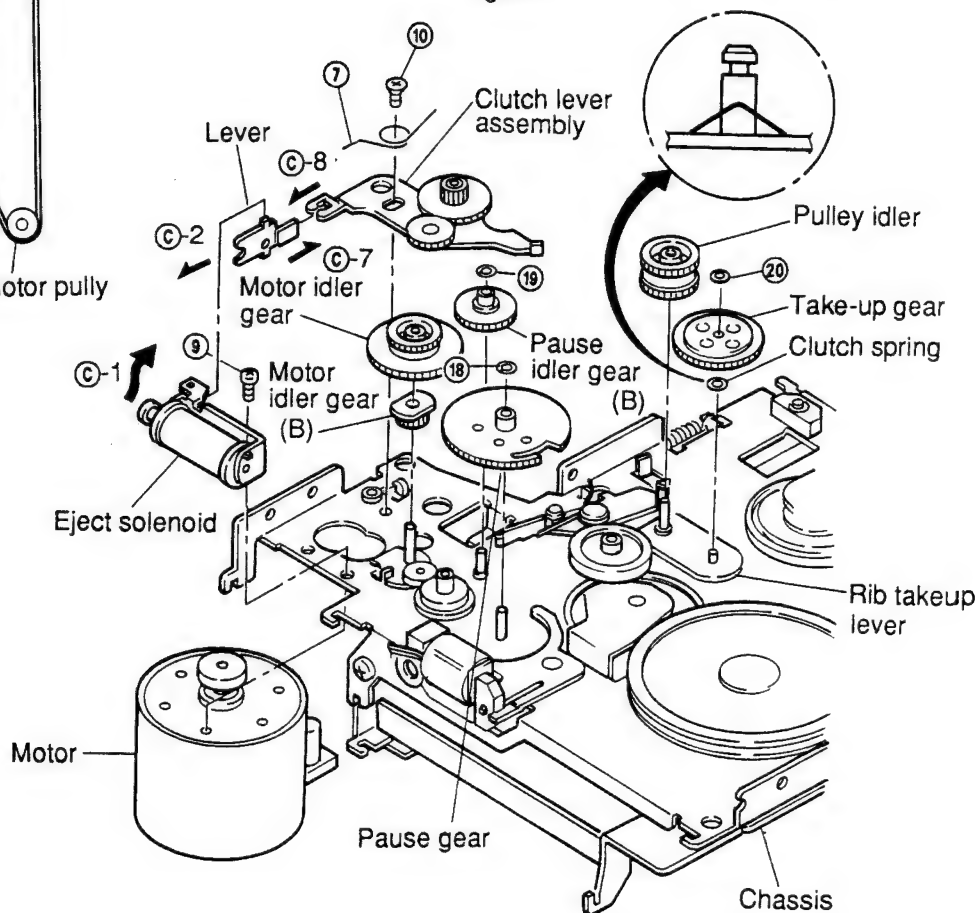


Figure 10

c. Replacement of the flywheels

- (1) After removing the belt, pull out the two flywheels. Take care not to lose the polyslider washer (11) located between the flywheel and the chassis. (Refer to Figure 12.)
- (2) Fix the polyslider washer to the new flywheel and mount the flywheel to the chassis.

d. Replacement of the play solenoid

- (1) Remove the two solders (8-2) as shown in Figure 11.
- (2) Remove one screw (12) and remove the solenoid as shown in Figure 11.
- (3) Mount the new solenoid following the removal steps in the reverse order.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 2.3 kg.cm.

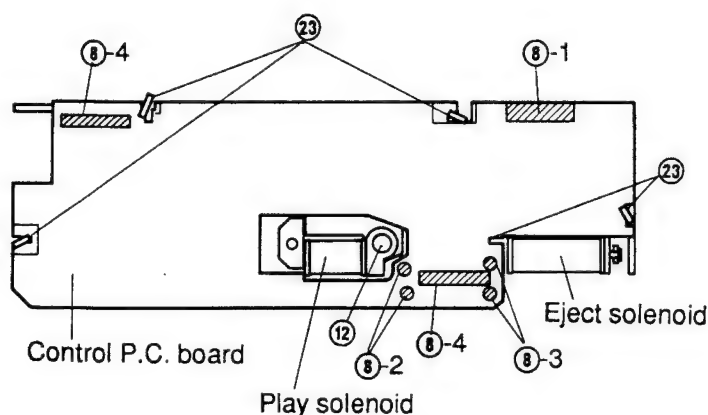


Figure 11

e. Replacement of the eject solenoid

- (1) Remove two solders (8-3). Take care not to lose the tube that protects the wire. (Refer to Figure 11.)
- (2) Remove screw (9) and remove the play solenoid as shown in Figure 10.
- (3) Align position (C)-1 of the new solenoid with position (C)-2 of the lever and fasten the screws as shown in Figure 10.
- (4) Lead the wire through the tube and solder it.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 3 kg.cm. As the solder wires are not insulated, do not let them cross each other.

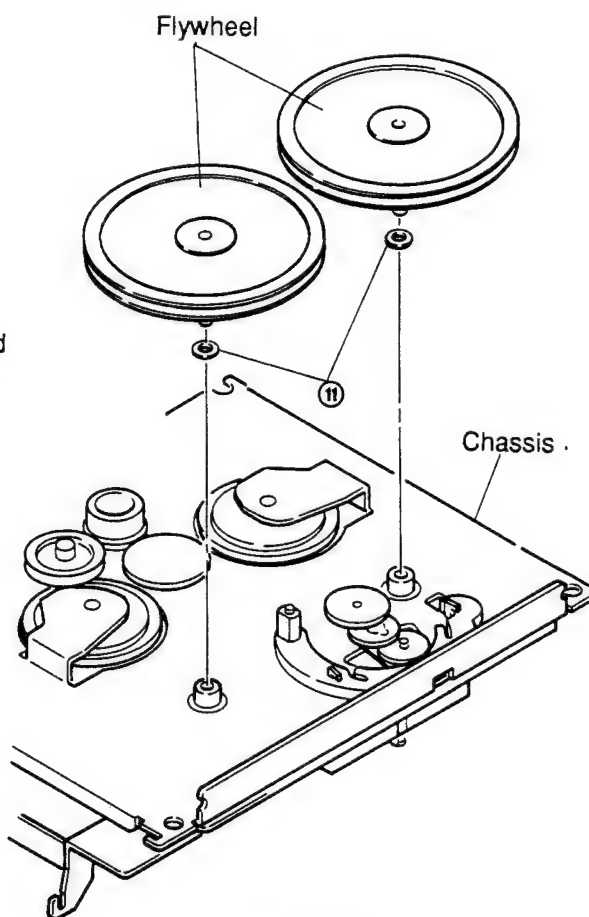


Figure 12

f. Replacement of gears

(f-1) Replacement of the reverse idler gear

- (1) Remove M1.2 lock washer ⑬, pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Remount following the removal steps in the reverse order.

(f-2) Replacement of the sun gear

- (1) Remove M1.2 lock washer ⑭, pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Mount it, following the removal steps in the reverse order.

(f-3) Replacement of the fixing gear

- (1) Adjust the two mounting claws for the fix gear on the chassis ⑮ and remove the section C-3 of the gear by pulling it up in the direction of the arrow shown in Figure 13.
- (2) Insert the section C-4 of the new gear into the chassis, and mount it following the removal steps in the reverse order as shown in Figure 13.

(f-4) Replacement of the reverse lever assembly and planet gear

- (1) Remove both the fixing gear and the sun gear and remove the reverse lever assembly as shown in Figure 13.
- (2) Remove M1.7 lock washer ⑯ and remove the planet gear as shown in Figure 14.
- (3) Mount the new planet gear and reverse lever following the removal steps in the reverse order.

Notes on f-1 through f-4:

After mounting all parts, check if the reverse lever assembly moves in the directions marked C-5 when the reverse gear is turned clockwise and counterclockwise.

*After mounting the fixing gear, bend them into the form of as shown in the Figure.

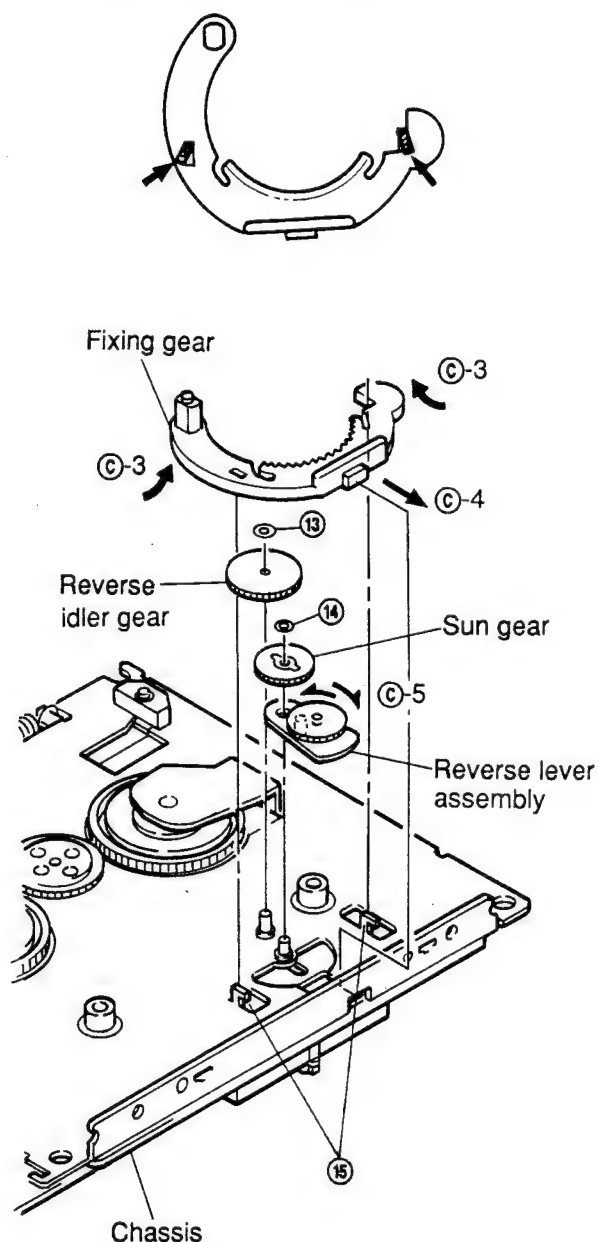


Figure 13

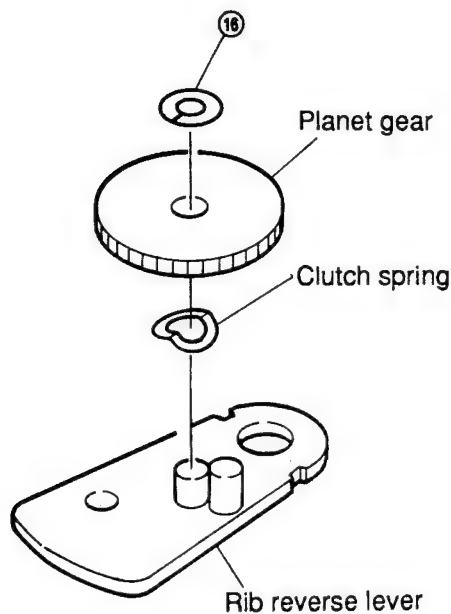
(f-5) Replacement of the clutch lever assembly and eject idler gear

- (1) After removing the motor, remove the motor idler gear and the motor idler gear (B) and remove the clutch lever assembly as shown in Figure 10.
- (2) Remove M1.2 lock washer ⑰ and remove the eject idler gear as shown in Figure 15.
- (3) Mount the new gears and clutch lever following the removal steps in the reverse order.

Note: When mounting the gears to the lever, apply grease (FLOIL 425A) to the position ㉔-6 as shown in Figure 15. Align the position ㉔-7 with the position ㉔-8 and mount the clutch lever as shown in Figure 10.

(f-6) Replacement of the pause gear

- (1) Remove M1.2 lock washer ⑱ and remove the pause gear pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear following the removal steps in the reverse order.



[Disassembly Reverse Lever Assembly]

Figure 14

(f-7) Replacement of the pause idler gear (B)

- (1) After removing the motor and the motor idler gear, remove M1.2 lock washer ⑲ and remove the gear by pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear by following the removal steps in the reverse order.

(f-8) Replacement of the take-up gear

- (1) After removing the belt and the pulley idler gear, remove M1.2 lock washer ⑳ by pulling it up from the stud of the rib take-up lever assembly as shown in Figure 10.
- (2) Remount the take-up gear following the removal steps in the reverse order.

Notes on f:

Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

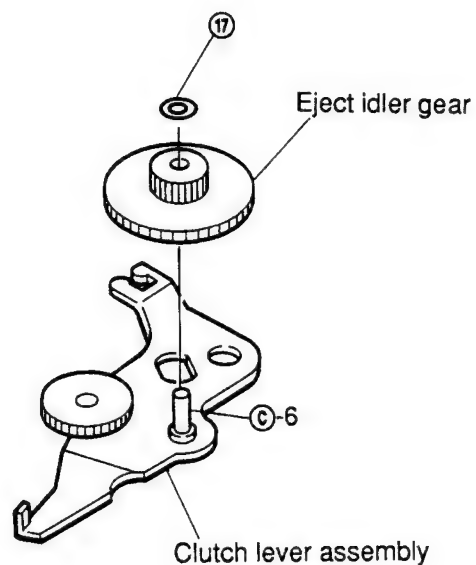


Figure 15

4. Replacement of the parts mounted on the front of the chassis

a. Replacement of the audio PC board

- (1) Remove two solders ②① and remove the parallel wire (7P) and the head PC board as shown in Figure 16.
- (2) Adjust the two claws ②② to the rectangular holes on the PC board and remove the PC board as shown in Figure 16.
- (3) After replacement, mount the new PC board following the removal steps in the reverse order.

Note: The head PC board and the parallel wires are easily damaged. Handle them with care. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head PC board.

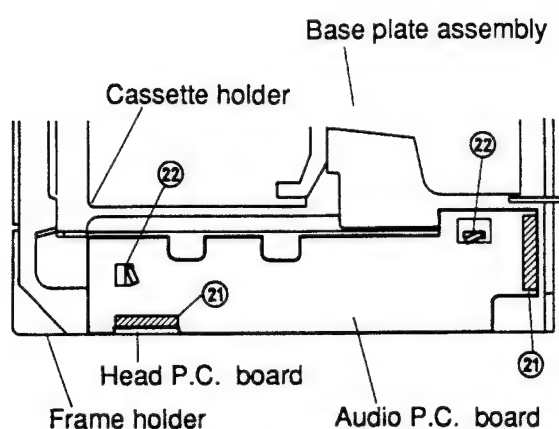


Figure 16

b. Replacement of the control PC board

- (1) Remove seven solders ⑧ and remove the three parallel wires and the wires of the eject solenoid and of the play solenoid as shown in Figure 11.
- (2) Remove the claws ②③ and remove the PC board as shown in Figure 11.
- (3) After replacing the old PC board with a new one, mount it following the removal steps in the reverse order.

Note: As mentioned in Item 4-a, handle the parallel wires carefully, and be sure that the temperature of the soldering iron and the soldering time are proper. As the wires of the eject solenoid are not insulated, do not let them cross each other.

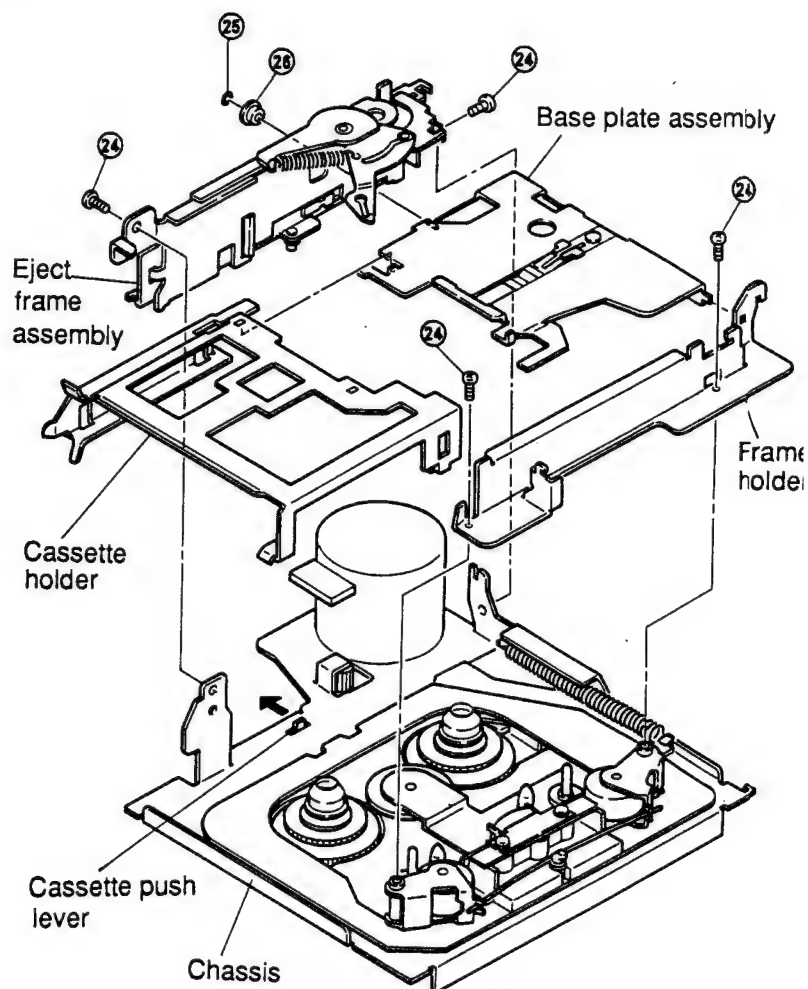


Figure 17

c. Disassembly and assembly of the cassette holder

- (1) Remove four screws ②④ and remove the eject frame assembly and the frame holder as shown in Figure 17.
- (2) Remove M1.2 lock washer ②⑤ and plate base roller ②⑥ and remove the cassette holder and the base plate assembly as shown in Figure 17.
- (3) Remount them following the removal steps in the reverse order.

- Notes:**
1. When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indicated by the arrow in the figure. Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 18).
 2. When mounting the eject frame assembly, push the cassette push lever in the direction indicated by the arrow in the Figure 17.
 3. When mounting the base plate assembly and the eject frame assembly, or when mounting the eject frame assembly to the chassis, do not apply excessive force to avoid deformations of the eject arm and the frame.
 4. Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

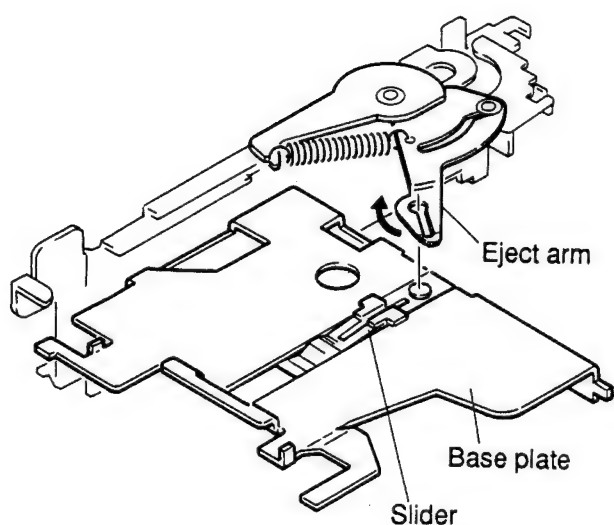


Figure 18

d. Replacement of the reels

- (1) Remove M1.7 lock washers ②⑧ (Refer to figure 19).
- (2) Move the select lever in the direction marked ①-1 in the Figure and remove the reel by gripping the reel gear as shown in Figure 19.
- (3) After replacement, mount the new reels following the removal steps in the reverse order.
- (4) After mounting, check the tape speed and the wow and flutter with test tape MTT-III.

Note: Since the reel is easily loosened if the cap is gripped, always handle it gripping the gear. Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

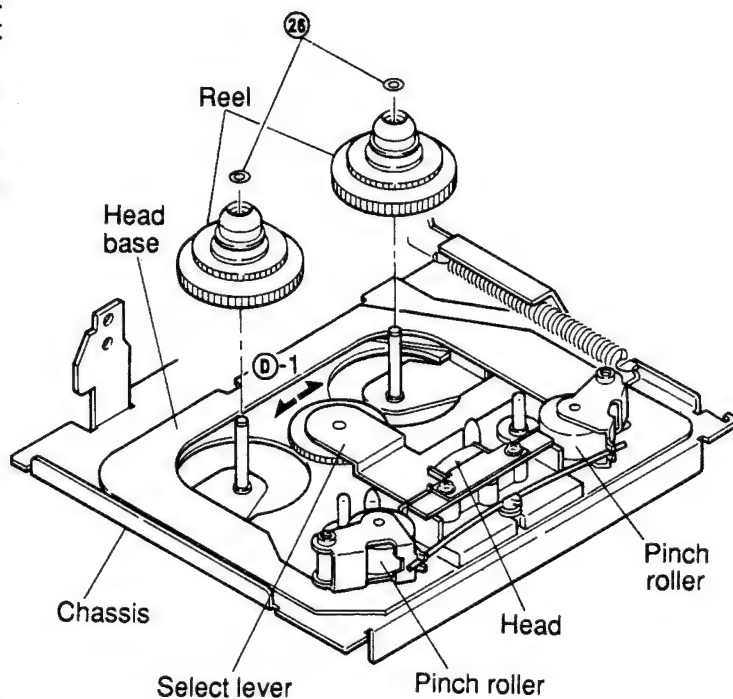


Figure 19

e. Replacement of the pinch rollers

- (1) Remove pinch roller spring ②⑦ as shown in Figure 20.
- (2) Remove M3.1 lock washers ②⑧ and remove the pinch roller as shown in Figure 20.
- (3) Mount the pinch rollers following the removal steps in the reverse order.
Apply insulation coating to the position ①-2 of the pinch roller as shown in Figure 20.

Note: Make sure that the pinch rollers are thoroughly fixed and that they are not deformed. Do not reuse used lock washers. Take care to avoid damage by piercing and tearing.

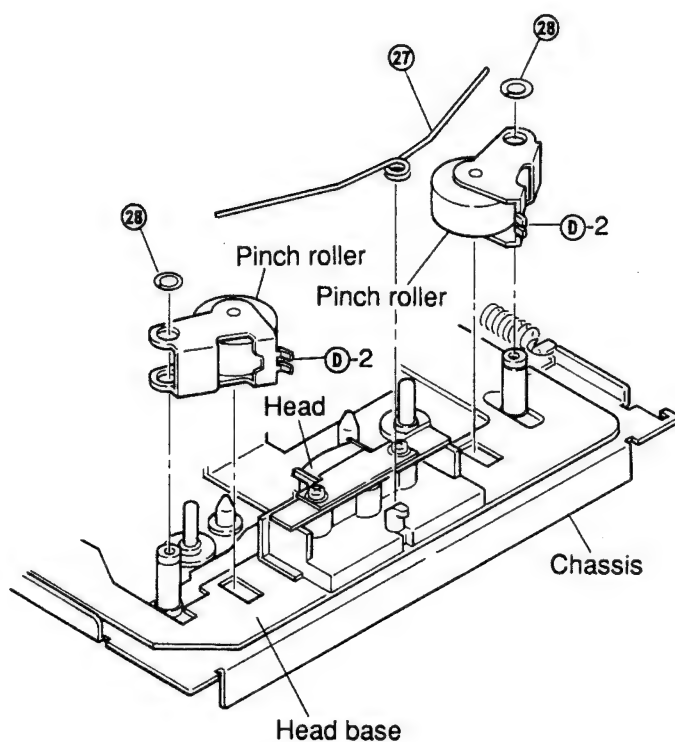


Figure 20

f. Replacement of the head

- (1) After removing the pinch roller spring, remove two screws ②⑨ as shown in Figure 21.
- (2) Remove solder ③⑩ and remove the head from the head PC board as shown in Figure 22.
- (3) After replacement, mount the new head following the removal steps in the reverse order.

Notes: 1. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head PC board. Make sure that the head PC board is not lifted.
2. Fasten the two screws with a fastening torque of 2.3 kg.cm. Note that the tension of the head spring can be decreased if the screws are fastened too strongly.

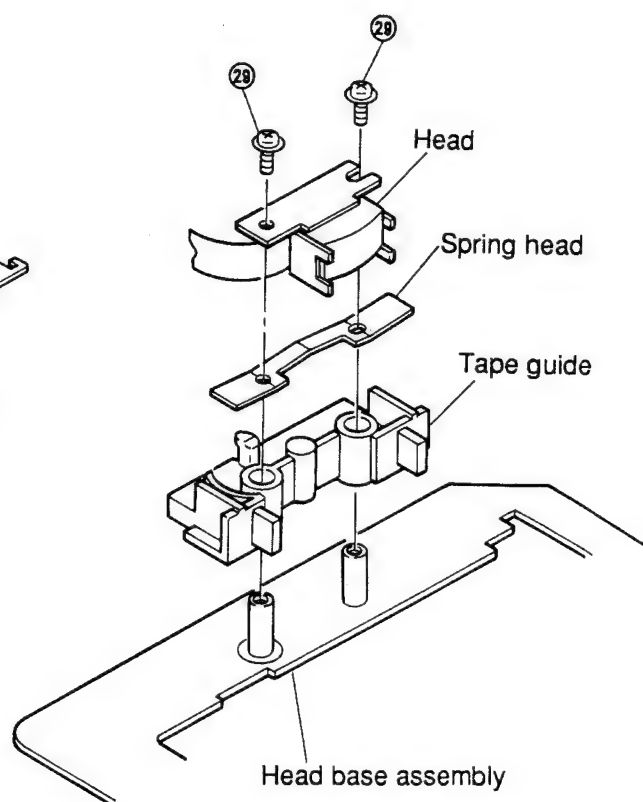


Figure 21

- (4) Adjust the height of the head as shown in Figures 23, 24 and 25.
- ① Place the height adjustment gauge (M-300 or AT-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.
 - ② When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t 0.1 mm or polislider washer t 0.13 mm). If necessary, remove the spacer.

Note: If you do not have a height gauge like described in ①-②, run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.

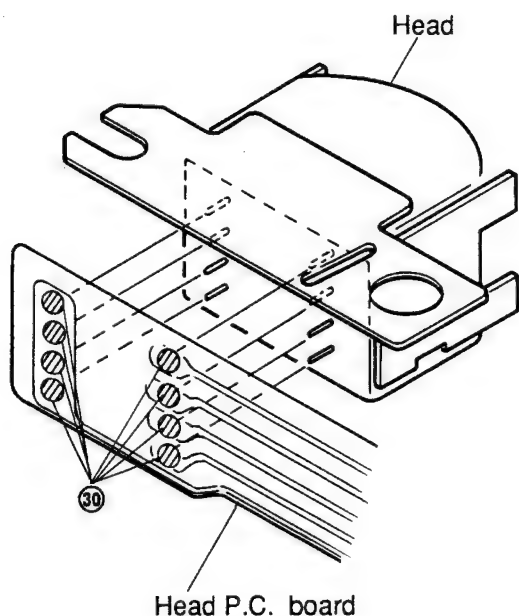


Figure 22

- (5) After having assembled the complete mechanism, adjust the angle of the head with test tape MTT-113C. (Refer to chapter "Adjustment of the head angle".) After the adjustment, apply the screw lock and fix the screws.

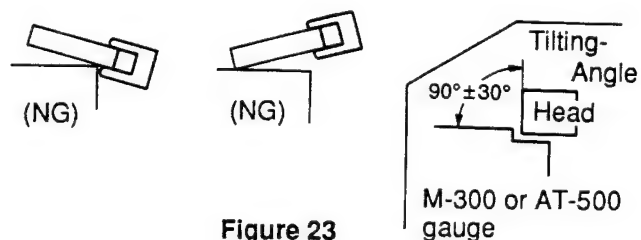


Figure 23

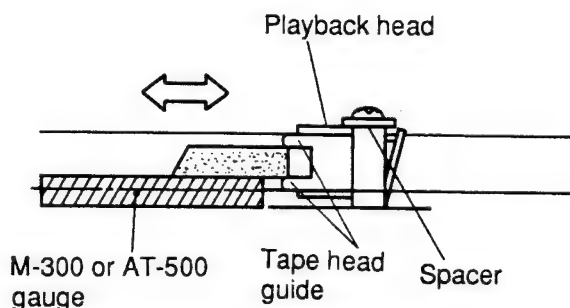


Figure 24

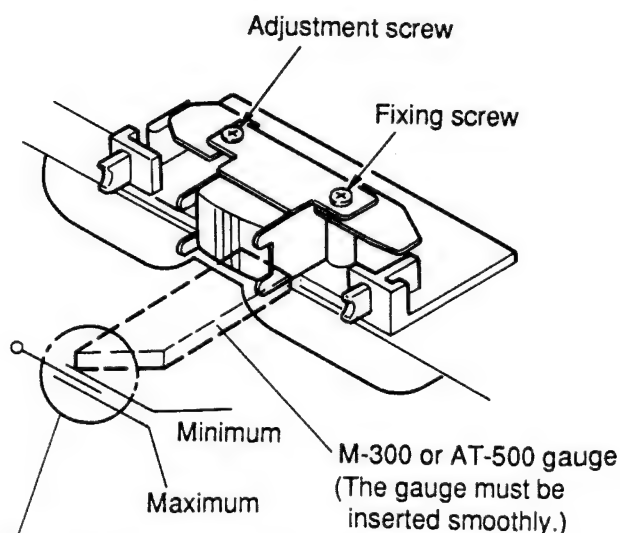
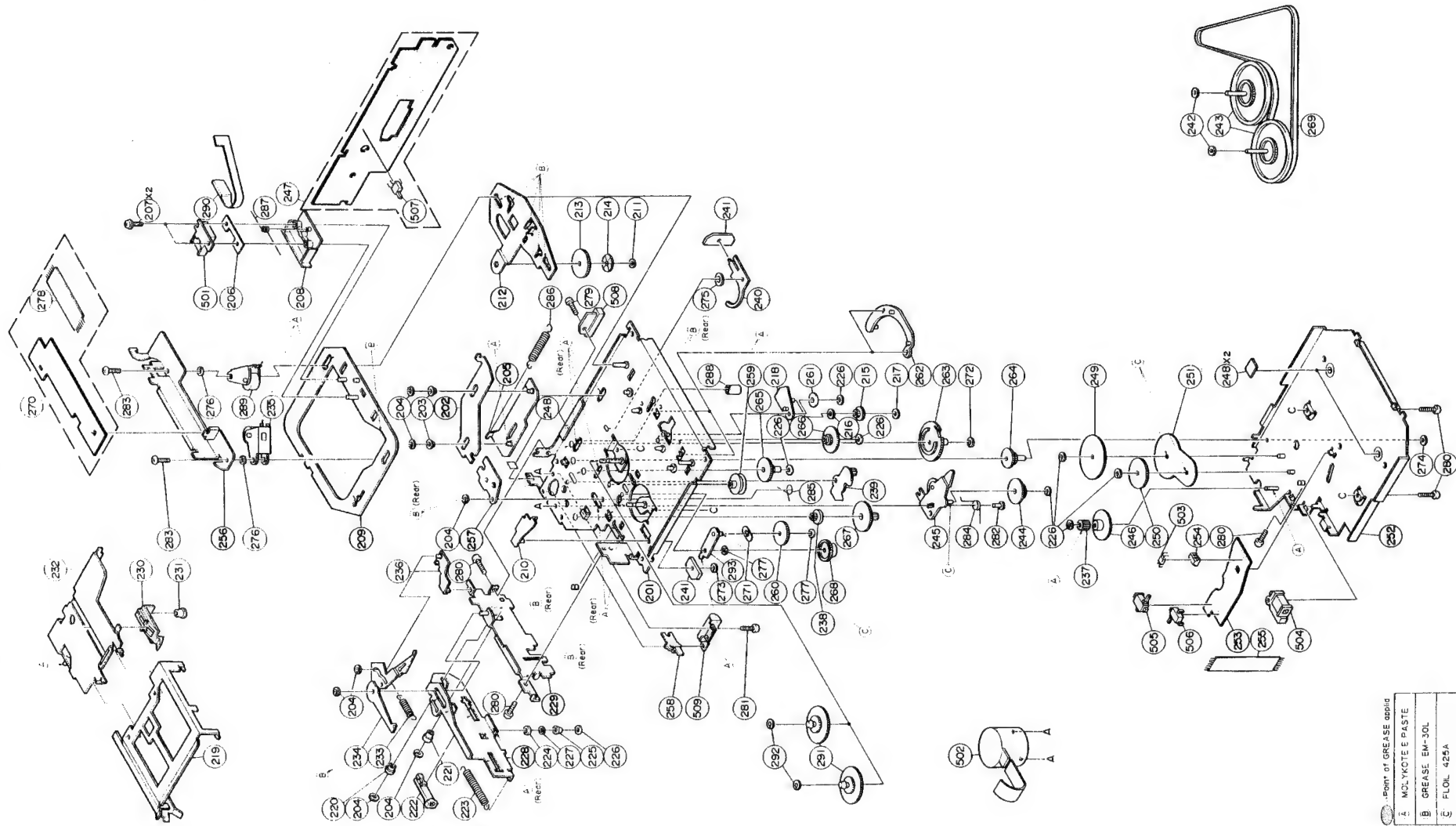


Figure 25

Exploded View (Cassette Deck)



Cassette Deck Assembly Parts List

Note: The parts without part numbers are not supplied.

Symbol No.	IN-dex	Part No.	Description			Symbol No.	IN-dex	Part No.	Description		
203	3-C	43A11072W01	Roller, Sub Head			248		43A90918F01	Spacer, Polyslider		
204		04A41345P01	Washer, Lock(M1.2)			249	3-F	44A11063W01	Gear, Bottom A		
206	2-B	41A10095W01	Spring, Head			250	3-F	44A11064W01	Gear, Bottom B		
207	2-B	03S40019G03	Screw, F-Locks(M2x4)			251	3-G	04A11122W01	Washer, GR		
208	2-B	43B12545W01	Tape, Guide			254	3-G	15B11065W01	Guide, Photo		
210	4-C	01A10206W01	Assy., Riv Lever R/F Sol			255	4-G	30T15126W01	Wire, PC Sensor(7P)		
211	2-D	04A41345P29	Washer, Lock(M2.6)			258	4-D	45A10101W01	Lever, Eject Sol		
213	2-D	44A10295W01	Gear, Sensor			259	3-D	49A10131W01	Pulley, Idler		
214	2-D	14A10681W01	Reflector			260	4-E	44A10133W01	Gear, Take Up		
215	3-E	44A10142W01	Gear, Planet			261	3-E	44A10134W01	Gear, Sun		
216	3-E	41A10097W02	Spring, Clutch			262	3-E	44B10135W01	Gear, Fix		
217	3-E	04A41345P31	Washer, Lock(M1.7)			263	3-E	44B10136W01	Gear, Pause		
218	3-E	01A10203W01	Assy., Riv Lever Reverse			264	3-F	44A10137W01	Gear, Pause Idler A		
219	4-B	07B10074W01	Holder, Cassette			265	3-D	44A10379W01	Gear, Pause Idler B		
220	5-B	43A12583W01	Roller, Eject			266	3-E	44A10138W01	Gear, Reverse Idler		
221	5-C	43A63281F01	Roller, Plate Base			267	3-E	44A10139W01	Gear, Motor Idler		
222	5-C	44A82206F01	Rack			268	4-E	44A11062W01	Gear, Reel Idler		
223	5-C	41B10386W03	Spring, GR(Rack)			269	1-G	42A10380W01	Belt, GR		
224	4-C	43A10121W01	Roller, Eject A			● 270	3-A	01V14700W68	Assy., GR Audio		
225	4-D	43A10360W01	Roller, Eject B			■ 270	3-A	01V11500W19	Assy., GR Audio		
226		04A41345P11	Washer, Lock(M1.2)			▲ 270	3-A	01V11500W19	Assy., GR Audio		
227	4-D	43A12377W01	Roller, Eject C			271	4-D	41A10097W02	Spring, Clutch		
230	4-A	45B10376W01	Slider			272	3-F	04A41345P15	Washer, Lock(M1.2)		
231	4-B	47A83278F01	Shaft, Slider			273	4-D	04A41345P02	Washer, Lock(M1.7)		
232	4-A	01A10212W01	Assy., Riv Plate Base			274	3-H	04A41345P17	Washer, Lock(M1)		
233	4-C	41B10386W01	Spring, Eject Arm			275	2-D	04A41345P30	Washer, Lock(M3.1)		
234	4-B	01A10148W01	Assy., Riv Eject Arm A			276	3-B	04A41345P32	Washer, Lock(M3.1)		
235	3-B	01B10381W02	Assy., Pinch Roller			277		04A41345P06	Washer, Lock(M2.1)		
236	4-C	01A10202W01	Assy., Riv Lever Pack In SW			278	2-A	30T15126W02	Wire, PC Joint 7P		
237	4-F	44A12975W01	Pinion, Eject			279	2-D	03S44205G78	Screw, Pan(M2x6)		
238	4-E	44A13817W01	Gear, Motor Idler(B)			280		03S44205G30	Screw, Pan(M2.6x4)		
239	3-E	01A10201W01	Assy., Riv Lever Pause			281	4-D	03S72235F38	Screw, Pan(M2x3.3)		
240	2-D	45A10092W01	Lever, Play			282	3-F	03A12132W02	Screw, Eject Clutch (M2x2.3)		
241		76T10374W01	Chip			283		03S43997P64	Screw, Pan(M1.7x3)		
242	1-G	04S40075G05	Washer Polyslider (M2.1)			284	3-F	41A10384W01	Spring, Eject Clutch		
243	1-G	01A10368W01	Assy., Flywheel			285	3-E	41A10385W01	Spring, Cas Push		
244	3-F	44A10141W01	Gear, Eject Idler			286	2-C	41B10386W02	Spring, Sub Head		
245	3-E	01A10205W01	Assy., Riv Lever Clutch A			287	2-B	41A10387W01	SP, Pinch Roller		
246	3-F	44A10145W01	Gear, Eject			288	3-D	43A12719W01	Roller, Pause		
247	2-B	01V11500W18	Assy., GR Control			289	3-B	01B10381W01	Assy., Pinch Roller		

Notes : ● ; For GR75E020 model only ■ ; For GR75E010 model only

▲ ; For GR75E01A model only Others ; Common

Symbol No.	IN-dex	Part No.	Description		
● 290	2-B	84T10387W01	Panel. Head		
■ 291	4-E	01T15164W01	Assy.. Reel		
■ 291	4-E	01T15164W01	Assy.. Reel		
▲ 291	4-E	01T15164W02	Assy.. Reel		
292	4-E	04A41345P12	Washer. Lock(M1.7)		
293	4-D	01A11078W01	Assy.. Riv Lever Take Up		
Miscellaneous					
● 501	2-B	88T15971W01	Head		
■ 501	2-B	88T10373W01	Head		
▲ 501	2-B	88T10373W01	Head		
502	4-E	01V11500W64	Assy.. Motor		
503	3-C	51T15144W01	Sensor. Photo		
504	4-G	01T10371W01	R/F Sol. Assy.		
505	4-F	40T15382W01	SW.. Detector (Pack Down)		
506	4-G	40T15382W01	SW.. Detector(Metal)		
507	2-C	40T15222W01	SW.. Detector (Pack In)		
508	2-D	01T15249W01	Assy.. Play Solenoid		
509	4-D	01T10369W01	Assy.. Eject Solenoid		

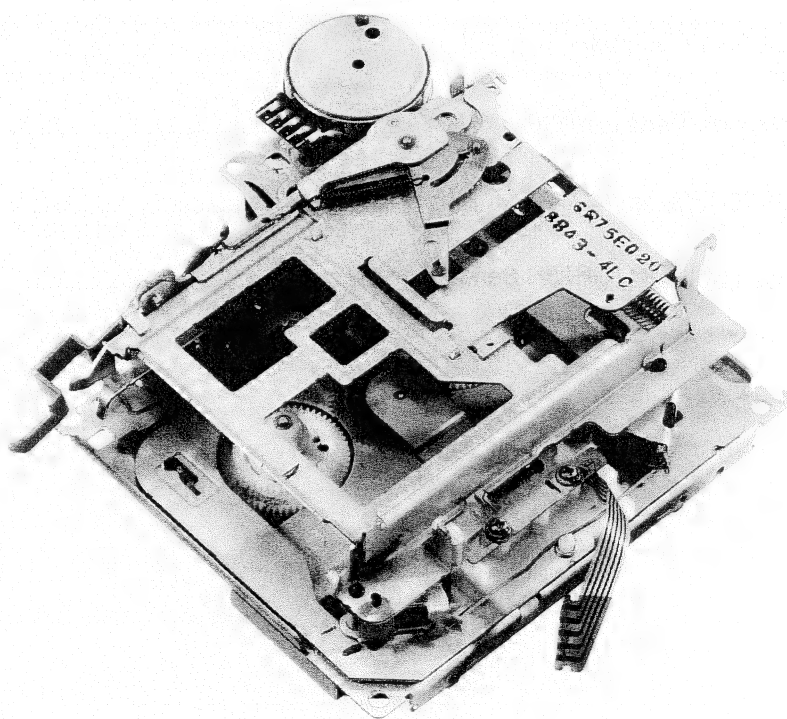
Notes : ● ; For GR75E020 model only ■ ; For GR75E010 model only
▲ ; For GR75E01A model only Others ; Common

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ALPINE[®] **SERVICE MANUAL**

Cassette Deck Mechanism

ADDENDUM & REVISED(V)



GR/GR-Y SERIES

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Memo

List of Usable Lock Washers

	SIZE	PARTS NO.	QUANTITY			
			GR75E Series	GR75L Series	GR-Y Series	GR75H Series
1	(M1.2 × 3.5 × 0.25)	04B41345P01	4	4	4	2
2	(M1.7 × 3.5 × 0.25)	04B41345P02	1	1	1	4
3	(M1.2 × 2.5 × 0.25)	04B41345P11	8	8	8	9
4	(M1.7 × 3.5 × 0.35)	04B41345P12	2	2	2	2
5	(M1.2 × 3.5 × 0.35)	04B41345P15	2	2	2	2
6	(M1 × 2.5 × 0.25)	04B41345P17	1	1	1	2
7	(M2.6 × 5 × 0.25)	04B41345P29	1	1	1	1
8	(M3.1 × 8 × 0.05)	04B41345P30	1	1	1	1
9	(M3.1 × 5 × 0.35)	04B41345P32	2	2	2	2
10	(M1.2 × 2.5 × 0.3)	04B41345P34	1	1	1	0
11	(M1.7 × 2.8 × 0.25)	04B41345P35	1	1	1	2
12	(M2.1 × 4 × 0.25)	04B41345P37	1	1	1	0
13	(M2.1 × 4 × 0.13)	04S40075G05	2	2	2	0
14	(M2.1 × 4 × 0.3)	04S40075G58	0	0	0	1

List of Usable Oil

- 1) Molykote G paste
- 2) Grease EM-30L
- 3) Grease PG-671

List of Usable Jigs

- 1) GR bottom gear jig (Part No. 44A20788W01)
- 2) Head height adjustment gauge
AI-500 (Part No. AI-500)

Disassembly, Assembly and Replacement of Functional Parts

1. Disassembly and Assembly of Bottom Cover

- (1) Turn the mechanism around as shown in Figure 1.
- (2) Remove M1 lock washer ① as shown in Figure 1.
- (3) Remove three screws ② as shown in Figure 1.
- (4) Lift the bottom cover slowly from the position ③-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
- (5) When remounting the bottom cover, first turn the front of the mechanism up as shown in Figure 2.
- (6) Slide the slider in the direction ④-2 as shown in Figure 2.
- (7) Push down the cassette holder in the direction ④-3 as shown in Figure 2.
- (8) Pull the door pin in the direction ④-4 so that the mechanism is locked in as shown in Figure 2.
- (9) Turn the mechanism around as shown in Figure 3.
- (10) Pull the automatic metal lever in the direction ⑤-5 and the RF solenoid chip in the direction ⑤-6 as shown in Figure 3.
- (11) Insert the hooks of the bottom cover into the chassis in the direction ⑤-7, and then join the part ⑤-8 of the bottom cover to the chassis slowly, making sure that the 3 points indicated with the straight lines in the Figure 3 are fitted properly.
If there are troubles in mounting the bottom cover, do not apply force but remove the bottom cover once again and check the positions of the individual parts. (Refer to Figure 3.)
- (12) Since the hooks marked ⑤-8 will be lifted slightly as shown in Figure 4, insert the jig through the hole ⑤-9, and fix it turning the jig slightly in the direction ⑤-11.
Instead of operation (12), turn the gear nose slowly with a precision screwdriver etc., taking care not to damage it.
After 2 to 3 turns, it will click into place.
(Refer to Figures 4 and 5.)
- (13) Fix the screws and the lock washer that have been removed.

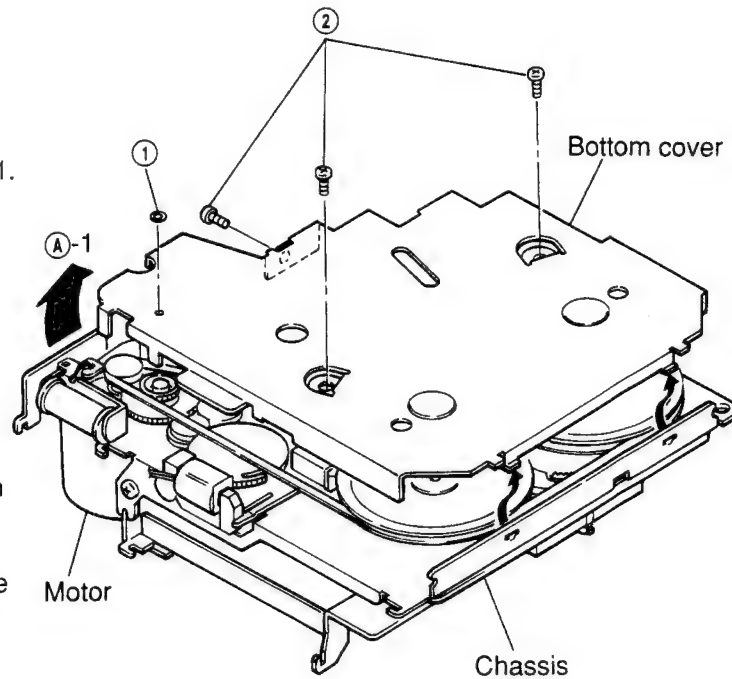


Figure 1

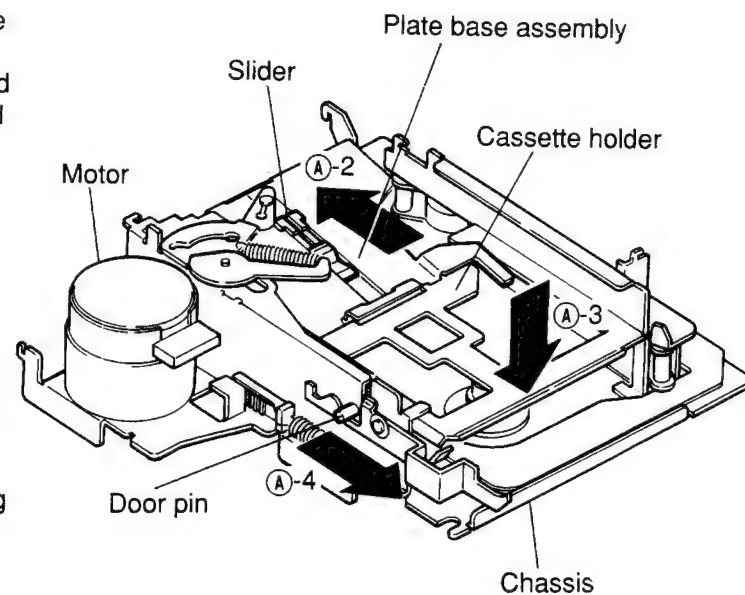


Figure 2

- (14) Insert the jig into the hole ⑤-9 as shown in Figure 4 and rotate the eject solenoid counterclockwise about 20 times, pulling it in the direction ⑤-10 with the finger. Then the eject operation is completed.
Instead of operation (14), the eject operation can be performed by mounting the mechanism to the product. (Refer to Figures 4 and 5.)

Note: Do not reuse the used lock washers for mounting.
When turning the mechanism, be careful not to drop the gear and the flywheel.
Fasten the three screws with a fastening torque of 6 kg.cm.

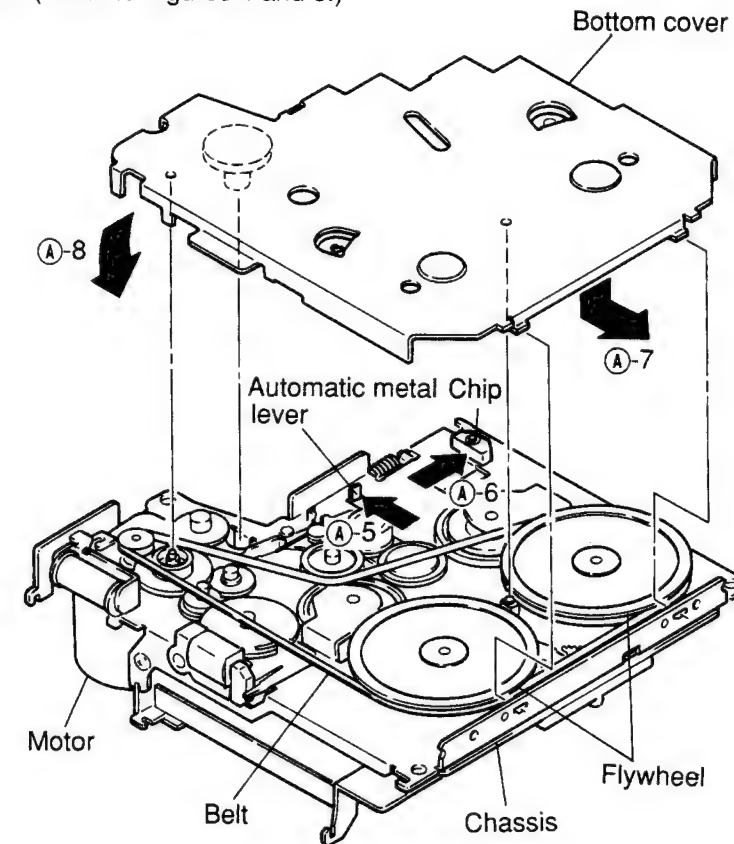


Figure 3

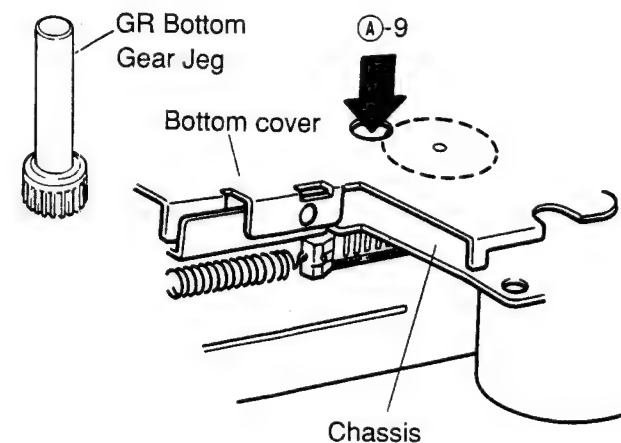


Figure 4

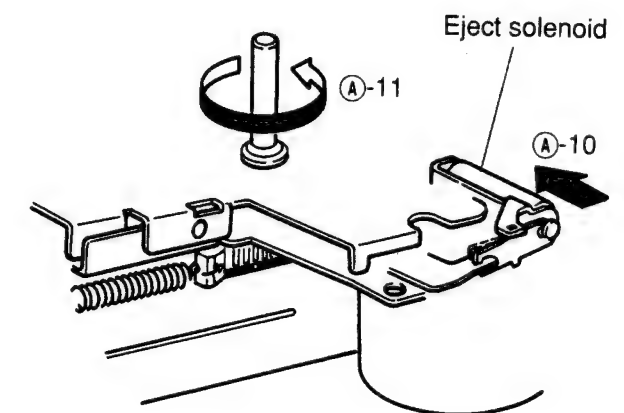


Figure 5

2. Replacement of the bottom cover mounting parts

a. Replacement of the eject gear

- (1) Remove M1.2 lock washer ③ as shown in Figure 6.
- (2) Pull the eject pinion out of the eject gear and remove the eject gear as shown in Figure 6.
- (3) Apply the molykote E paste to the section ⑧-1, and mount the eject gear following the removal steps in the reverse order. After replacement is finished, make sure that the gear rotates smoothly. (Refer to Figure 6.)

Note: Do not reuse the used lock washers for remounting.
Take care to avoid damage by piercing and tearing.

b. Replacement of the RF solenoid

- (1) Remove two solders ④ and remove the RF solenoid from the bottom cover by pulling it up as shown in Figure 6.
- (2) Replace the solenoid with a new one, and remount it following the removal steps in the reverse order as shown in Figure 6.

Note: When removing solder ④, set the temperature of the soldering iron to $350^{\circ} \pm 10^{\circ}$ and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged.

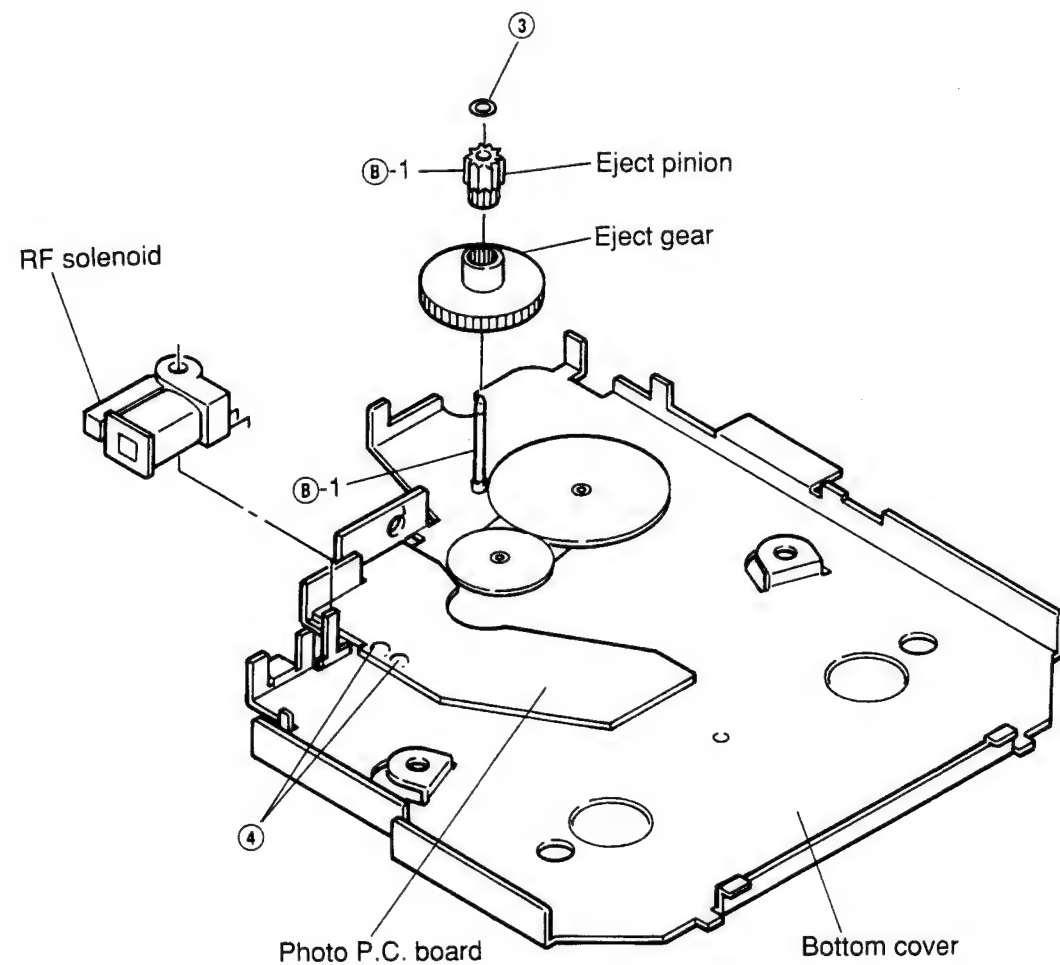


Figure 6

c. Replacement of the photo sensor

- (1) Remove four solders ⑤ as shown in Figure 7.
- (2) Remove the photo guide together with the photo sensor from the photo P.C. board as shown in Figure 7.
- (3) Insert the new photo sensor into the photo guide, and bend the legs of the photo sensor in the direction marked ⑧-2 as shown in Figure 7.
- (4) Insert the photo guide into the P.C. board and solder the legs so that the photo sensor is set as indicated by [] in Figure 7.

Note: When using the soldering iron, set the temperature of the soldering iron to $350^{\circ} \pm 10^{\circ}$ and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged. Also take care that the photo guide is properly fixed and straight.

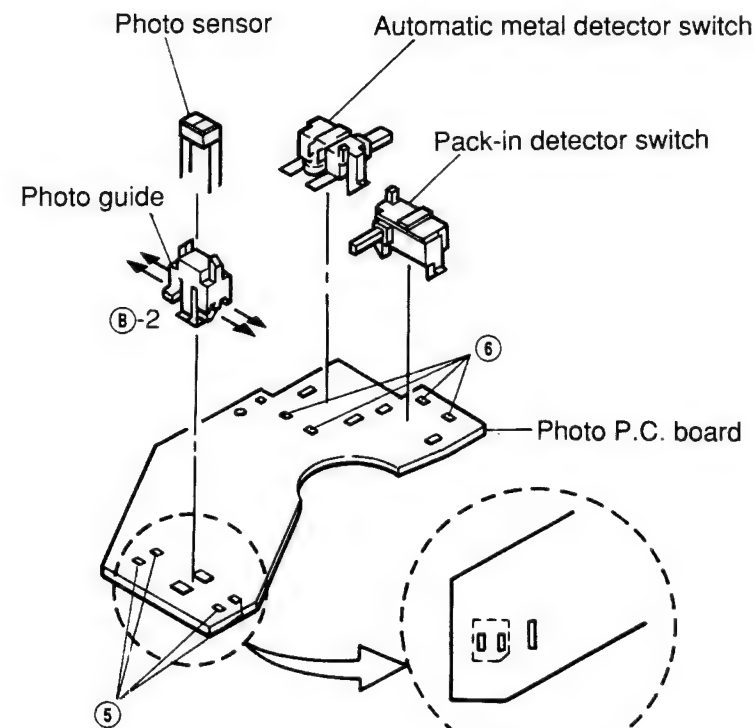


Figure 7

d. Replacement of the detector switch

(Automatic metal pack-in)

- (1) Remove 4 solders ⑥ with which the switch is fixed as shown in Figure 7.
- (2) Prepare the terminals of the switch of the new solder as shown in Figure 8.
- (3) After that, insert the switch into the photo P.C. board, and solder the terminals.

Note: When using the soldering iron, refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Also take care that the switch guide is properly fixed and straight.

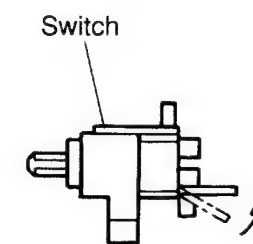


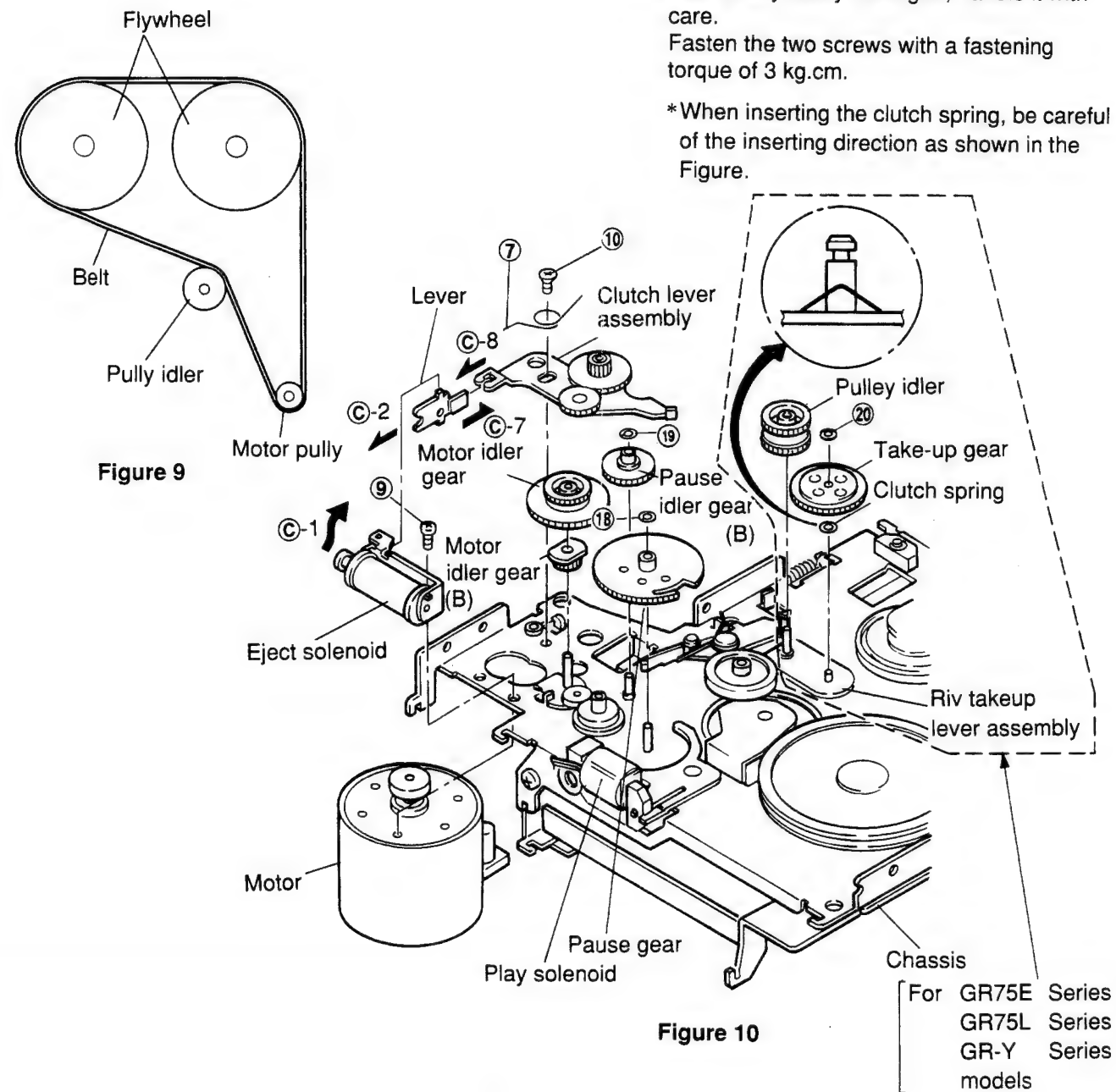
Figure 8

3. Replacement of the mounting parts on the rear of the main chassis

a. Replacement of the belt

- (1) After removing the bottom cover, remove the belt.
- (2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 9.

Note: When fixing the belt, make sure that it is not twisted or dirty. When removing the belt, do not turn up the front of the chassis.



b. Replacement of the motor

- (1) After removing the belt, remove spring ⑦ as shown in Figure 10.
- (2) Remove solder ⑧-1, and remove the parallel wire (5P) from the control P.C. board as shown in Figure 11.
- (3) Remove two screws ⑨ and ⑩, and remove the motor, taking care not to damage the motor idler gear. (Refer to Figure 10.)
- (4) Mount the new motor following the removal steps in the reverse order.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Since the parallel wire is very easily damaged, handle it with care. Fasten the two screws with a fastening torque of 3 kg.cm.

*When inserting the clutch spring, be careful of the inserting direction as shown in the Figure.

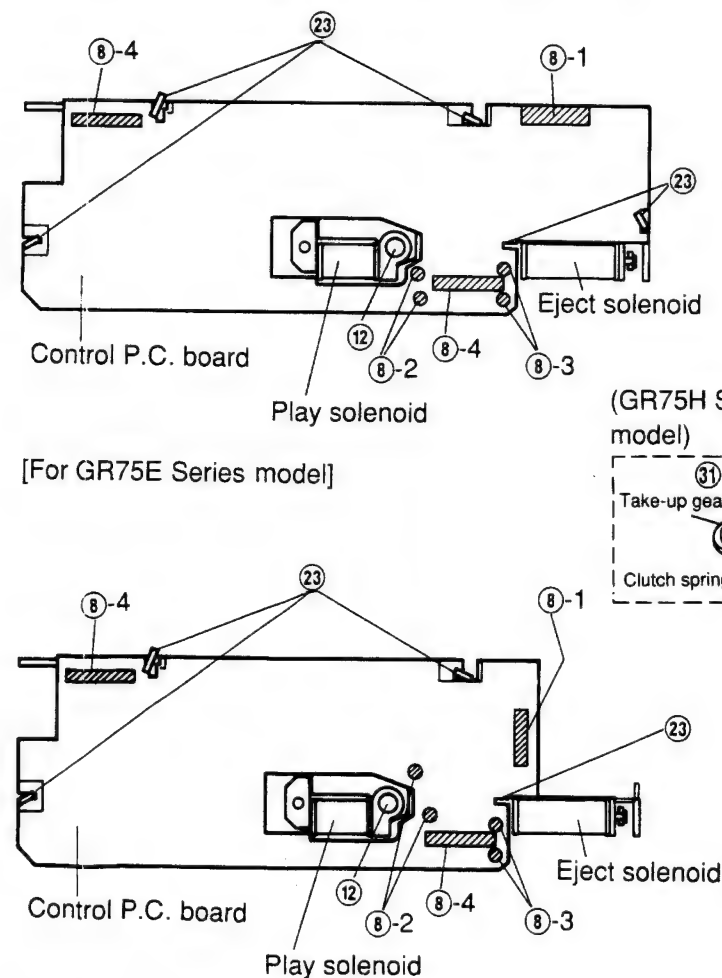
c. Replacement of the flywheels

- (1) After removing the belt, pull out the two flywheels. Take care not to loose the polyslider washer ⑪ located between the flywheel and the chassis. (Refer to Figure 12.)
- (2) Fix the polyslider washer to the new flywheel and mount the flywheel to the chassis.

d. Replacement of the play solenoid

- (1) Remove the two solders ⑧-2 as shown in Figure 11.
- (2) Remove one screw ⑫ and remove the solenoid as shown in Figure 11.
- (3) Mount the new solenoid following the removal steps in the reverse order.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 2.3 kg.cm.

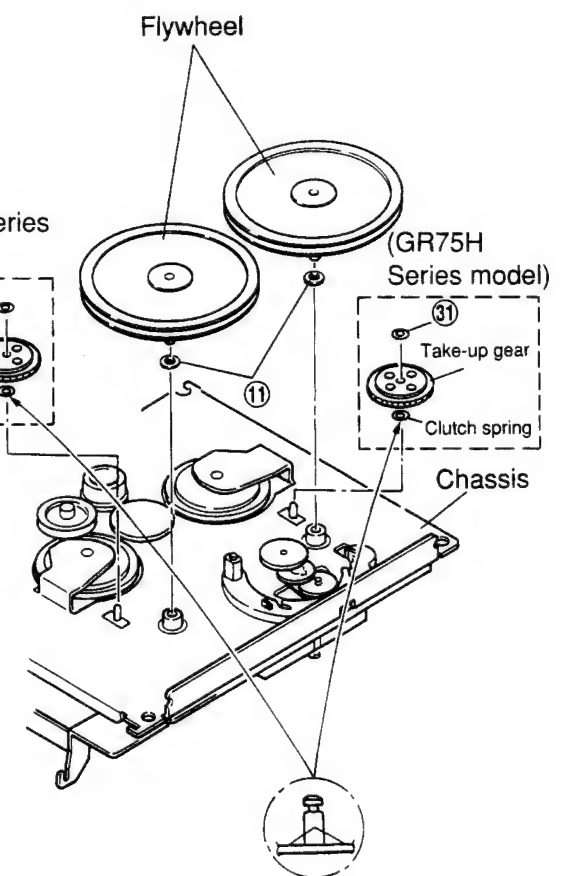


[For GR75L Series
GR-Y Series
GR75H Series models]

e. Replacement of the eject solenoid

- (1) Remove two solders ⑧-3. Take care not to loose the tube that protects the wire. (Refer to Figure 11.)
- (2) Remove screw ⑨ and remove the solenoid as shown in Figure 10.
- (3) Align position ⑥-1 of the new solenoid with position ⑥-2 of the lever and fasten the screw as shown in Figure 10.
- (4) Lead the wire through the tube and solder it.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 3 kg.cm. As the solenoid wires are not insulated, do not let them cross each other.



f. Replacement of gears

(f-1) Replacement of the reverse idler gear

- (1) Remove M1.2 lock washer ⑮, pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Remount following the removal steps in the reverse order.

(f-2) Replacement of the sun gear

- (1) Remove M1.2 lock washer ⑭, pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Mount it, following the removal steps in the reverse order.

(f-3) Replacement of the fixing gear

- (1) Adjust the two mounting claws for the fix gear on the chassis ⑮ and remove the section ③ of the gear by pulling it up in the direction of the arrow shown in Figure 13.
- (2) Insert the section ④ of the new gear into the chassis, and mount it following the removal steps in the reverse order as shown in Figure 13.

(f-4) Replacement of the reverse lever assembly and planet gear

- (1) Remove both the fixing gear and the sun gear and remove the reverse lever assembly as shown in Figure 13.
- (2) Remove M1.7 lock washer ⑯ and remove the planet gear as shown in Figure 14.
- (3) Mount the new planet gear and reverse lever following the removal steps in the reverse order.

Notes on f-1 through f-4:

After mounting all parts, check if the reverse lever moves in the directions marked ⑤ when the reverse gear is turned clockwise and counterclockwise.

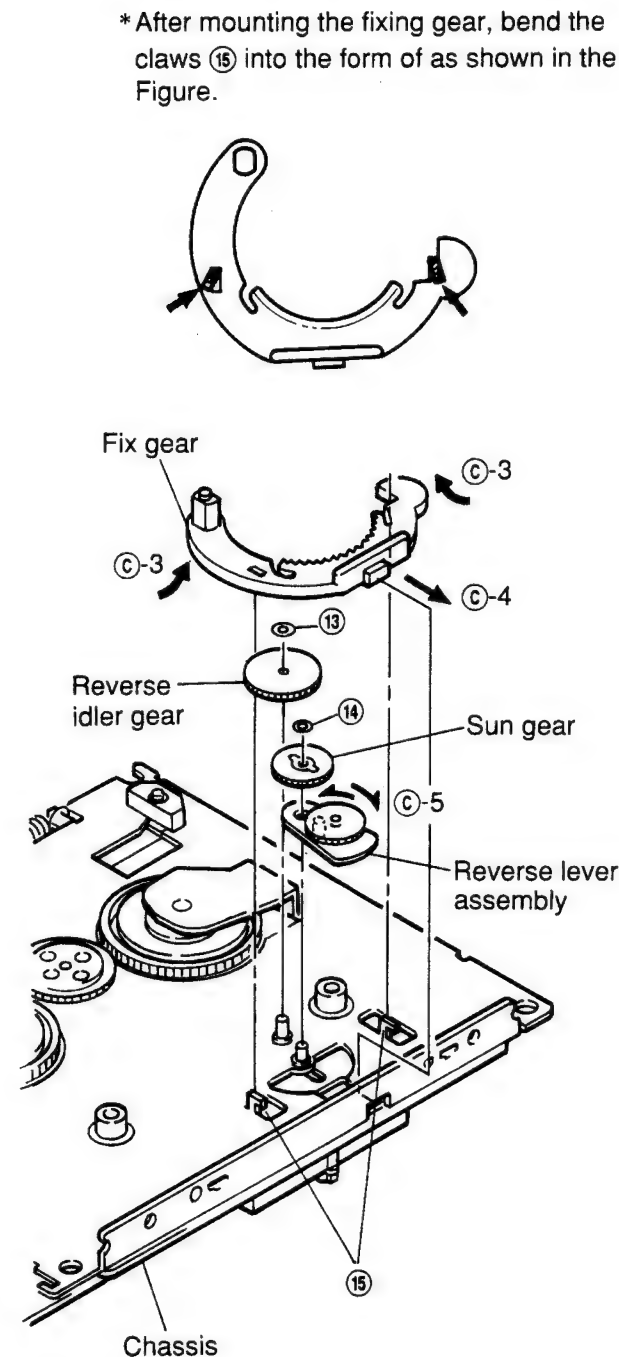


Figure 13

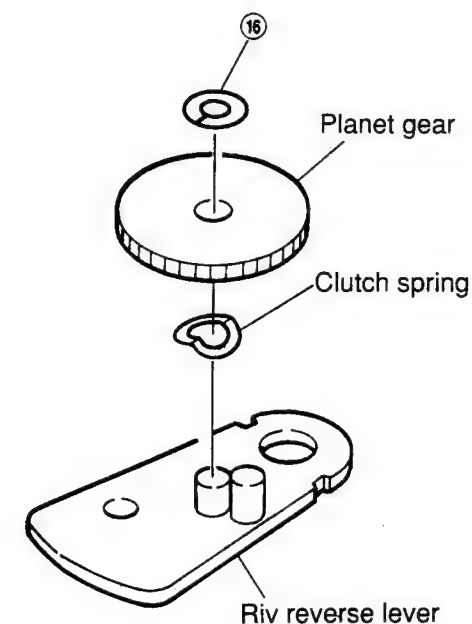
(f-5) Replacement of the clutch lever assembly and eject idler gear

- (1) After removing the motor, remove the motor idler gear and the motor idler gear (B) and remove the clutch lever assembly as shown in Figure 10.
- (2) Remove M1.2 lock washer ⑰ and remove the eject idler gear as shown in Figure 15.
- (3) Mount the new gears and clutch lever following the removal steps in the reverse order.

Note: When mounting the gears to the lever, apply grease (PG-671) to the position ⑥ as shown in Figure 15. Align the position ⑦ with the position ⑧ and mount the clutch lever as shown in Figures 10 and 15.

(f-6) Replacement of the pause gear

- (1) Remove M1.2 lock washer ⑱ and remove the pause gear pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear following the removal steps in the reverse order.



[Disassembly Reverse Lever Assembly]

Figure 14

(f-7) Replacement of the pause idler gear (B)

- (1) After removing the motor and the motor idler gear, remove M1.2 lock washer ⑲ and remove the gear by pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear by following the removal steps in the reverse order.

(f-8) Replacement of the take-up gear

- (1) After removing the belt and the pulley idler gear, remove M1.2 lock washer ⑳ by pulling it up from the stud of the riv take-up lever assembly as shown in Figure 10. After removing the Flywheel, remove M1.2 lock washer ㉑ and remove the gear by pulling it up from the stud of the chassis as shown in figure 12. [For GR75H Series model]
- (2) Remount the take-up gear following the removal steps in the reverse order.

Notes on f:

Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

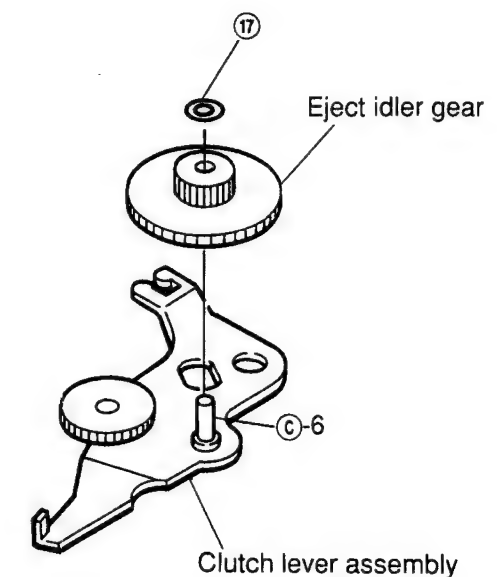


Figure 15

4. Replacement of the parts mounted on the front of the main chassis

a. Replacement of the audio P.C. board

- (1) Remove two solders ②① and remove the parallel wire (7P) and the head P.C. board as shown in Figure 16.
- (2) Adjust the two claws ②② to the rectangular holes on the P.C. board and remove the P.C. board as shown in Figure 16.
- (3) After replacement, mount the new P.C. board following the removal steps in the reverse order.

Note: The head P.C. board and the parallel wire are easily damaged. Handle them with care. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board.

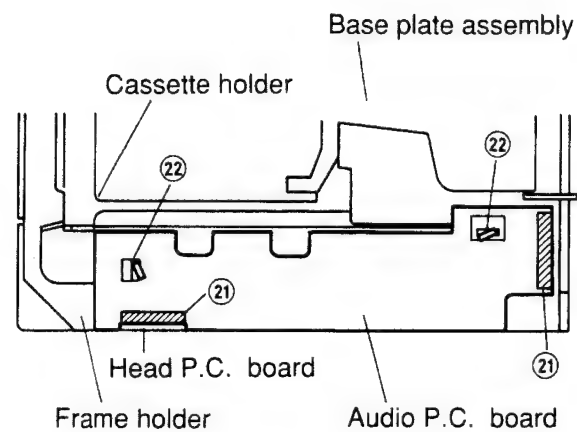


Figure 16

b. Replacement of the control P.C. board

- (1) Remove seven solders ⑧ and remove the three parallel wires and the wires of the eject solenoid and of the play solenoid as shown in Figure 11.
- (2) Remove five claws ②③ and remove the P.C. board as shown in Figure 11. [For GR75E Series model] Remove four claws ②③ and remove the P.C. board as shown in Figure 11. [For GR75L Series, GR-Y Series, GR75H Series models]
- (3) After replacing the old P.C. board with a new one, mount it following the removal steps in the reverse order.

Note: As mentioned in Item 4-a, handle the parallel wires carefully, and be sure that the temperature of the soldering iron and the soldering time are proper. As the wires of the eject solenoid are not insulated, do not let them cross each other.

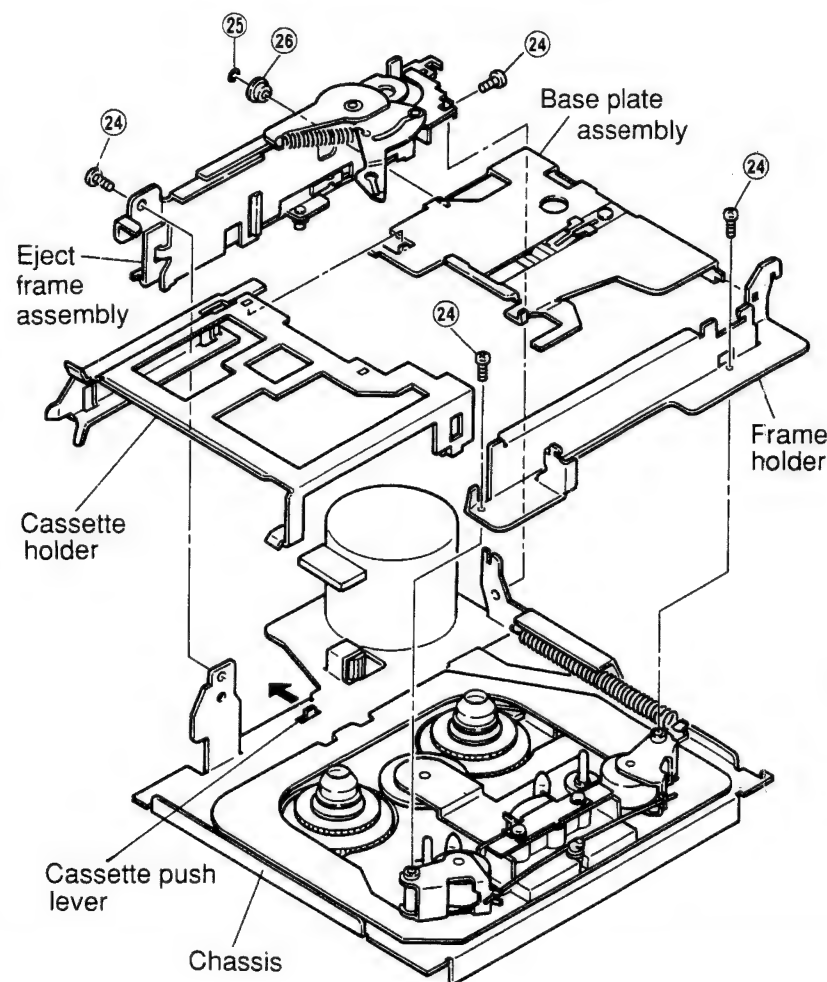


Figure 17

c. Disassembly and assembly of the cassette holder

- (1) Remove four screws ②④ and remove the eject frame assembly and the frame holder as shown in Figure 17.
- (2) Remove M1.2 lock washer ②⑤ and plate base roller ②⑥ and remove the cassette holder and the base plate assembly as shown in Figure 17.
- (3) Remount them following the removal steps in the reverse order.

- Notes:**
1. When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indicated by the arrow in the figure. Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 18).
 2. When mounting the eject frame assembly, push the cassette push lever in the direction indicated by the arrow in the Figure 17.
 3. When mounting the base plate assembly and the eject frame assembly, or when mounting the eject frame assembly to the chassis, do not apply excessive force to avoid deformations of the eject arm and the frame.
 4. Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

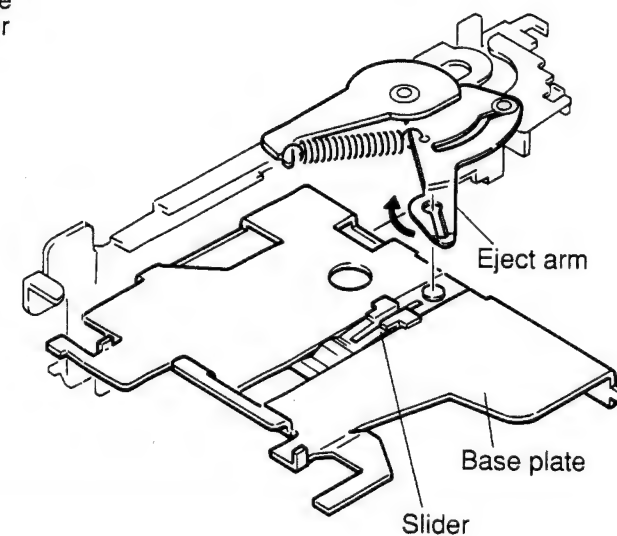


Figure 18

d. Replacement of the reels

- (1) Remove M1.7 two lock washers ②⑥ (Refer to figure 19).
- (2) Move the select lever in the direction marked ①-1 in the Figure and remove the reel by gripping the reel gear as shown in Figure 19.
- (3) After replacement, mount the new reels following the removal steps in the reverse order.
- (4) After mounting, check the tape speed and the wow and flutter with test tape MTT-111.

Note: Since the reel is easily loosened if the cap is gripped, always handle it gripping the gear. Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

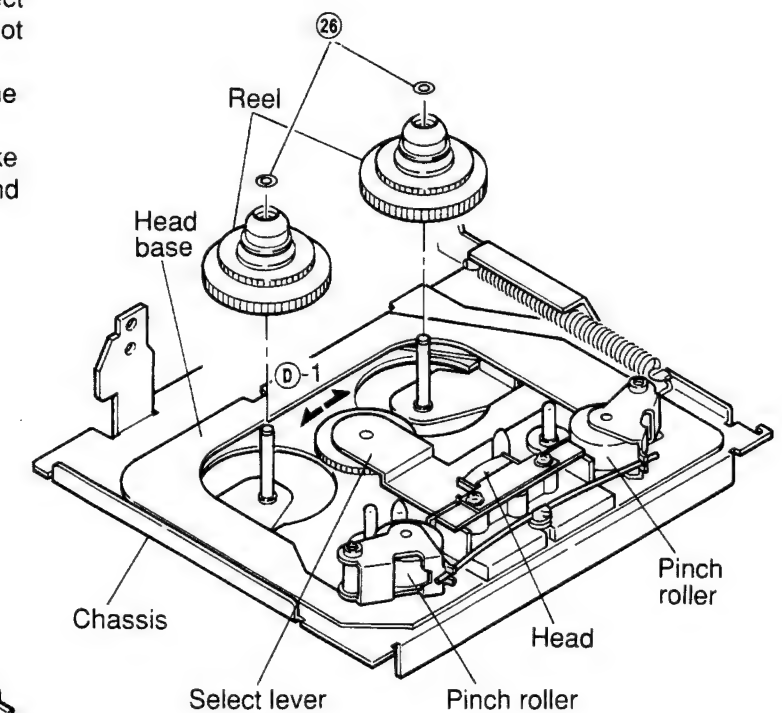


Figure 19

e. Replacement of the pinch rollers

- (1) Remove pinch roller spring ②⑦ as shown in Figure 20.
- (2) Remove M3.1 two lock washers ②⑧ and remove the pinch roller as shown in Figure 20.
- (3) Mount the pinch rollers following the removal steps in the reverse order.
Apply insulation coating to the position ①-2 of the pinch roller as shown in Figure 20.

Note: Make sure that the pinch rollers are thoroughly fixed and that they are not deformed. Do not reuse used lock washers. Take care to avoid damage by piercing and tearing.

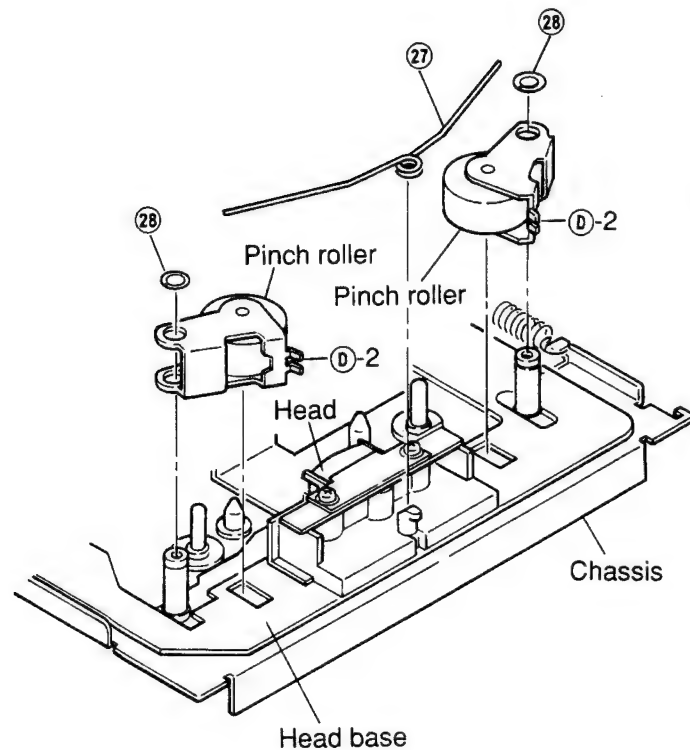


Figure 20

f. Replacement of the head

- (1) After removing the pinch roller spring, remove two screws ②⑨ as shown in Figure 21.
- (2) Remove solder ③⑩ and remove the head from the head P.C. board as shown in Figure 22.
- (3) After replacement, mount the new head following the removal steps in the reverse order.

Notes: 1. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board. Make sure that the head P.C. board is not lifted.

2. Fasten the two screws with a fastening torque of 2.3 kg.cm. Note that the tension of the head spring can be decreased if the screws are fastened too strongly.

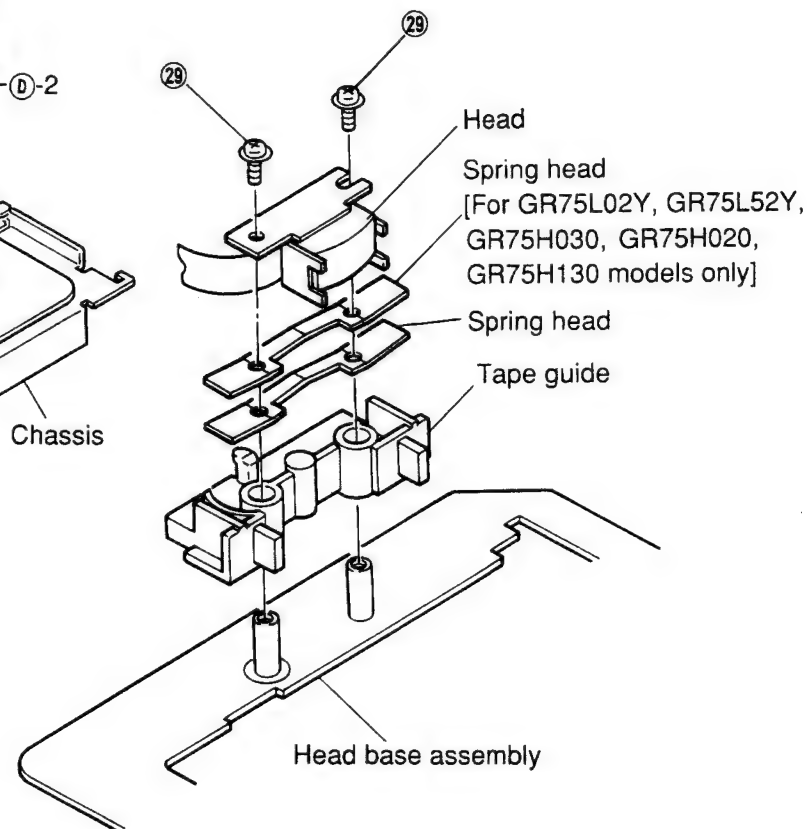


Figure 21

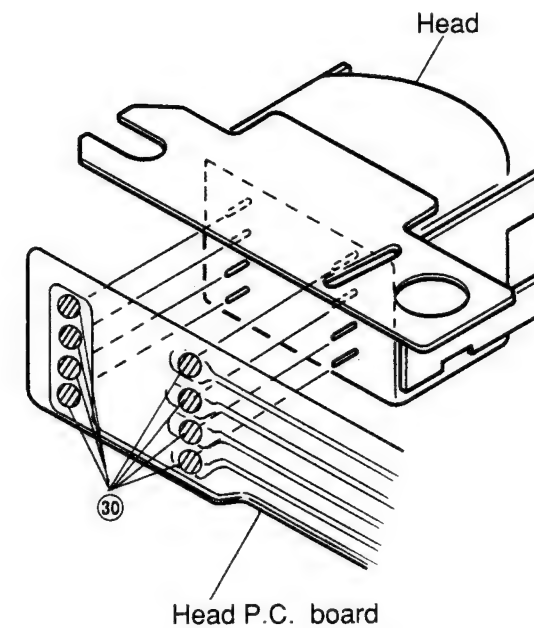


Figure 22

- (4) Adjust the height of the head as shown in Figures 23, 24 and 25.
- ① Place the height adjustment gauge (AI-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.
- ② When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t 0.1 mm or polislider washer t 0.13 mm). If necessary, remove the spacer.

Note: If you do not have a height gauge like described in (4)-①, run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.

- (5) After having assembled the complete mechanism, adjust the angle of the head with test tape MTT-113C. (Refer to chapter "Adjustment of the head angle".) After the adjustment, apply the screw lock and fix the screws.

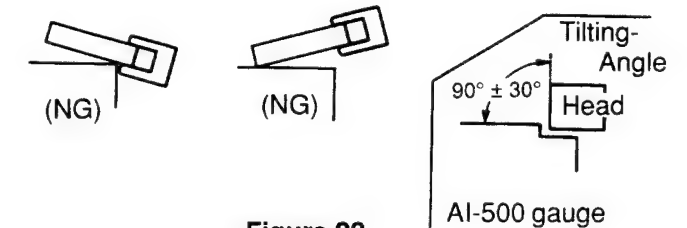


Figure 23

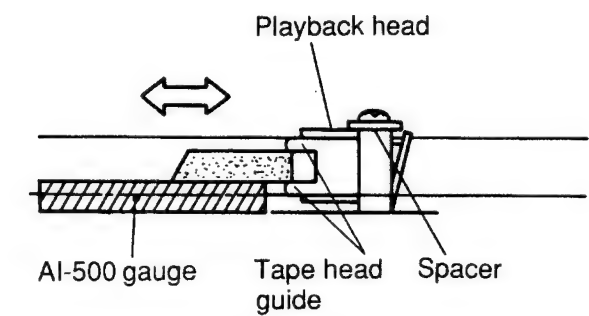


Figure 24

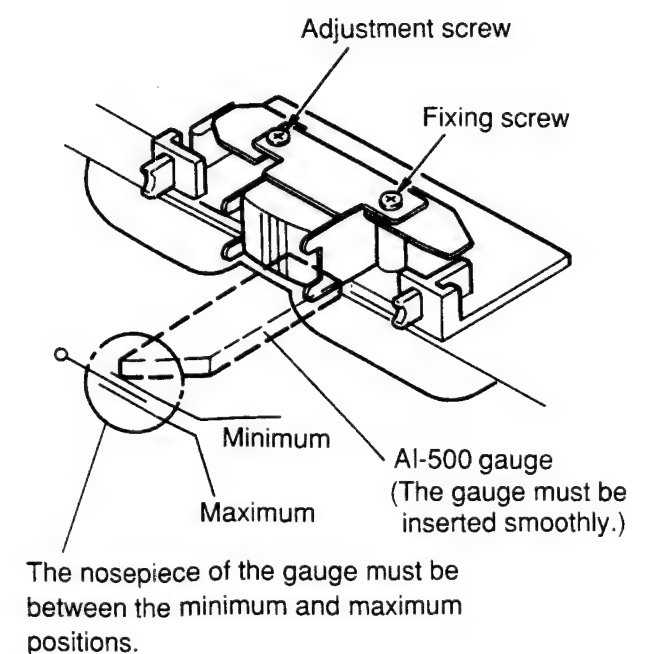
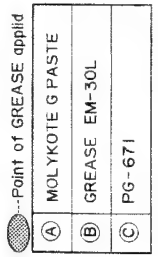


Figure 25

● For GR75E010/01A/020 Models



Cassette Deck Assembly Parts List (GR75E Series) (1/4)

Note: The parts without parts list are not supplied.

Symbol No.	IN-dex	Part No.	Description
203	3-C	43A11072W01	Roller, Sub Head
204		04B41345P01	Washer, Lock(M1.2)
206	2-B	41A31756W01	Spring, Head
207	2-B	03S40019G03	Screw, F-Locks(M2x4)
208	2-B	43B12545W01	Tape, Guide
210	4-C	01A10206W01	Assy., Riv Lever R/F Sol
211	2-D	04B41345P29	Washer, Lock(M2.6)
213	2-D	44A10295W01	Gear, Sensor
214	2-D	14A10681W01	Reflector
215	3-E	44A30480W01	Gear, Planet
216	3-E	41A10097W02	Spring, Clutch
217	3-E	04B41345P35	Washer, Lock(M1.7)
218	3-E	01A30824W01	Assy., Riv Lever Reverse
● 219	4-B	07B40283W01	Holder, Cassette
■ 219	4-B	07B40283W01	Holder, Cassette
▲ 219	4-B	07B10074W01	Holder, Cassette
220	5-B	43A12583W01	Roller, Eject
221	5-C	43A63281F01	Roller, Plate Base
222	5-C	44A82206F01	Rack
223	5-C	41B10386W03	Spring, GR(Rack)
224	4-C	43A10121W01	Roller, Eject A
225	4-D	43A10360W01	Roller, Eject B
226		04B41345P11	Washer, Lock(M1.2)
227	4-D	43A12377W01	Roller, Eject C
230	4-A	45B10378W01	Slider
231	4-B	47A63278F01	Shaft, Slider
232	4-A	01A10212W01	Assy., Riv Plate Base
233	4-C	41B10386W01	Spring, Eject Arm
234	4-B	01A10148W01	Assy., Riv Eject Arm A
235	3-B	01B30863W02	Assy., Pinch Roller
236	4-C	45A10087W01	Lever Pack In SW
237	4-F	44A12975W01	Pinion, Eject
238	4-E	44A13617W01	Gear, Motor Idler(B)
239	3-E	01A10201W02	Assy., Riv Lever Pause
240	2-D	45A40725W01	Lever, Play Sol
241		76T10374W01	Chip
242	1-C	04S40075G05	Washer Polyslider (M2.1)
243	1-C	01A10368W01	Assy., Flywheel
244	3-F	44A10141W01	Gear, Eject Idler
245	3-E	01A10205W02	Assy., Riv Lever Clutch A

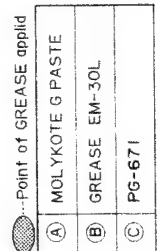
Notes: ● : For GR75E020 model only ■ : For GR75E010 model only
▲ : For GR75E01A model only Others : Common

Symbol No.	IN-dex	Part No.	Description
246	3-F	44A10145W01	Gear, Eject
247	2-B	01V11500W18	Assy., GR Control P.C. Board
248	3-G	43A41656W01	Spacer, UHMW
249	3-F	44A11063W01	Gear, Bottom A
250	3-F	44A11064W01	Gear, Bottom B
251	3-G	34A11122W02	Washer, GR
252	3-H	01A10210W02	Assy., Riv. Cover Bottom
254	3-C	15B11065W01	Guide, Photo
255	4-G	30T15126W01	Wire, PC Sensor(7P)
258	4-D	45A10101W01	Lever, Eject Sol
259	3-D	49A10131W01	Pulley, Idler
260	4-E	44A10133W01	Gear, Take Up
261	3-E	44A10134W01	Gear, Sun
262	3-E	44B10135W01	Gear, Fix
263	3-E	44B30484W01	Gear, Pause
264	3-F	44A10137W01	Gear, Pause Idler A
265	3-D	44A10379W01	Gear, Pause Idler B
266	3-F	44A10138W01	Gear, Reverse Idler
267	3-E	44A10139W01	Gear, Motor Idler
268	4-E	44A11062W01	Gear, Reel Idler
269	1-G	42A10380W01	Belt, GR
● 270	3-A	01V14700W68	Assy., GR Audio P.C. Board
■ 270	3-A	01V11500W19	Assy., GR Audio P.C. Board
▲ 270	3-A	01V11500W19	Assy., GR Audio P.C. Board
271	3-E	41A30475W01	Spring, Clutch
272		04B41345P15	Washer, Lock(M1.2)
273	4-D	04B41345P02	Washer, Lock(M1.7)
274	3-H	04B41345P17	Washer, Lock(M1)
275	2-D	04B41345P30	Washer, Lock(M3.1)
276		04B41345P32	Washer, Lock(M3.1)
277	4-E	04B41345P37	Washer, Lock(M2.1)
278	2-A	30T15126W02	Wire, PC Joint 7P
279	2-D	03S44205G78	Screw, Pan(M2x6)
280		03S44205G30	Screw, Pan(M2.6x4)
281	4-D	03S72235F53	Screw, Pan(M2x3.3)
282	3-F	03A12132W02	Screw, Eject Clutch (M2x2.3)
283		03S43997P64	Screw, Pan(M1.7x3)
284	3-F	41A10384W01	Spring, Eject Clutch
285	3-E	41A10385W01	Spring, Cas Push
286	2-C	41B10386W02	Spring, Sub Head

Symbol No.	IN-dex	Part No.	Description
287	2-B	41A10387W01	Spring, Pinch Roller
288	3-D	43A12719W01	Roller, Pause
289	3-B	01B30863W01	Assy., Pinch Roller
290	2-B	84T25151W01	Head P.C. Board
291	4-E	01T35403W01	Assy., Reel
292	4-E	04B41345P12	Washer, Lock(M1.7)
293	4-D	01A30161W01	Assy., Riv Lever Take Up
294	3-F	04B41345P34	Washer Lock(M1.2)
296	4-D	41A40910W01	Spring, Clutch
297	4-E	43A41543W01	Washer, Som(M1.2)
298	3-E	47A41458W01	Pin, Take Up
299	4-C	43A40388W01	Spacer, Polyslider
300	2-D	43A41744W01	Lock, Solenoid
Miscellaneous			
● 501	2-B	88T15971W01	Head
■ 501	2-B	88T10373W01	Head
▲ 501	2-B	88T10373W01	Head
502	4-E	01V11500W64	Assy., Motor(Main, 13.2V-80mA)
503	3-C	51T15144W01	Sensor, Photo
504	4-G	01T10371W01	R/F Sol. Assy.
505	4-F	40T15382W01	SW., Detector (Pack Down)
506	4-G	40T15382W01	SW., Detector(Metal)
507	2-C	40T15222W01	SW., Detector (Pack In)
508	2-D	01T15249W01	Assy., Play Solenoid
509	4-D	01T10369W02	Assy., Eject Solenoid

Notes: ● : For GR75E020 model only ■ : For GR75E010 model only
▲ : For GR75E01A model only Others : Common

● For GR75L020/02A Models



Cassette Deck Assembly Parts List (GR75E Series) (2/4)

Note: The parts without parts list are not supplied.

Symbol No.	IN-dex	Part No.	Description
203	3-C	43A11072W01	Roll, Sub Head
204		04B41345P01	Washer, Lock(M1.2)
206	2-B	41A31756W01	Spring, Head
207	2-B	03S40019G03	Screw, F-Locks(M2x4)
208	2-B	43B12545W01	Tape, Guide
210	4-C	01A10206W01	Assy., Riv Lever R/F Sol.
211	2-D	04B41345P29	Washer, Lock(M2.6)
213	2-D	44A10295W01	Gear, Sensor
214	2-D	14A10681W01	Reflector
215	3-E	44A30480W01	Gear, Planet
216	3-E	41A10097W02	Spring, Clutch
217	3-E	04B41345P35	Washer, Lock(M1.7)
218	3-E	01A30824W01	Assy., Riv Lever Reverse
219	4-B	07B40283W01	Holder, Cassette
220	5-B	43A12583W01	Roller, Eject
221	5-C	43A63281F01	Roller, Plate Base
222	5-C	44A82206F01	Rack
223	5-C	41B10386W03	Spring, GR(Rack)
224	4-C	43A10121W01	Roller, Eject(A)
225	4-D	43A10360W01	Roller, Eject(B)
226		04B41345P11	Washer, Lock(M1.2)
227	4-D	43A12377W01	Roller, Eject(C)
230	4-A	45B10378W01	Slider
231	4-B	47A63278F01	Shaft, Slider
232	4-A	01A10212W01	Assy., Riv Plate Base
233	4-C	41B10386W01	Spring, Eject Arm
234	4-B	01A21754W01	Assy., Riv Eject Arm(A)
235	3-B	01B30863W02	Assy., Pinch Roller
236	4-C	45A10087W01	Lever, Pack In SW.
237	4-F	44A20314W01	Pinion, Eject
238	4-E	44A13617W01	Gear, Motor Idler(B)
239	3-E	01A10201W02	Assy., Riv Lever Pause
240	2-E	45A40725W01	Lever, Play Sol
241		76T10374W01	Chip
242	1-G	04S40075G05	Washer, Polyslider (M2.1)
243	1-G	01A10368W01	Assy., Flywheel
244	3-F	44A10141W01	Gear, Eject Idler
245	3-E	01A10205W02	Assy., Riv Lever Clutch(A)
246	3-F	44A10145W01	Gear, Eject
247	2-B	01V23700W03	Assy., GR Control P.C. Board

Symbol No.	IN-dex	Part No.	Description
248	3-G	43A41656W01	Spacer, UHMW
249	3-F	44A11083W01	Gear, Bottom(A)
250	3-F	44A11084W01	Gear, Bottom(B)
251	3-G	34A11122W02	Washer, GR
252	3-H	01A10210W02	Assy., Riv. Cover Bottom
254	3-G	15B11085W01	Guide, Photo
255	4-G	30T15126W01	Wire, PC Sensor(7P)
258	4-D	45A10101W01	Lever, Eject Sol.
259	3-D	49A10131W01	Pulley, Idler
260	4-F	44A10133W01	Gear, Take Up
261	3-E	44A10134W01	Gear, Sun
262	3-E	44B10135W01	Gear, Fix
263	3-E	44B21670W01	Gear, Pause
264	3-F	44A10137W01	Gear, Pause Idler(A)
265	3-D	44A10379W01	Gear, Pause Idler(B)
266	3-E	44A10138W01	Gear, Reverse Idler
267	3-E	44A10139W01	Gear, Motor Idler
268	4-E	44A11062W01	Gear, Reel Idler
269	1-G	42A10380W01	Belt, GR
270	3-A	01V14700W68	Assy., GR Audio P.C. Board
271	3-E	41A30475W01	Spring, Clutch
272	3-F	04B41345P15	Washer, Lock(M1.2)
273	4-D	04B41345P02	Washer, Lock(M1.7)
274	3-H	04B41345P17	Washer, Lock(M1)
275	2-D	04B41345P30	Washer, Lock(M3.1)
276		04B41345P32	Washer, Lock(M3.1)
277	4-E	04B41345P37	Washer, Lock(M2.1)
278	2-A	30T15126W02	Wire, PC Joint 7P
279	2-D	03S44205G78	Screw, Pan(M2x6)
280		03S44205G30	Screw, Pan(M2.6x4)
281	4-D	03S72235F53	Screw, Pan(M2x3.3)
282	3-F	03A12132W02	Screw, Eject Clutch (M2x2.3)
283		03S43997P64	Screw, Pan(M1.7x3)
284	3-F	41A10384W01	Spring, Eject Clutch
285	3-E	41A10385W01	Spring, Cas. Push
286	2-C	41B10386W02	Spring, Sub Head
287	2-B	41A10387W01	Spring, Pinch Roller
288	3-D	43A12719W01	Roller, Pause
289	3-B	01B30863W01	Assy., Pinch Roller
290	2-B	84T25151W01	Head P.C. Board

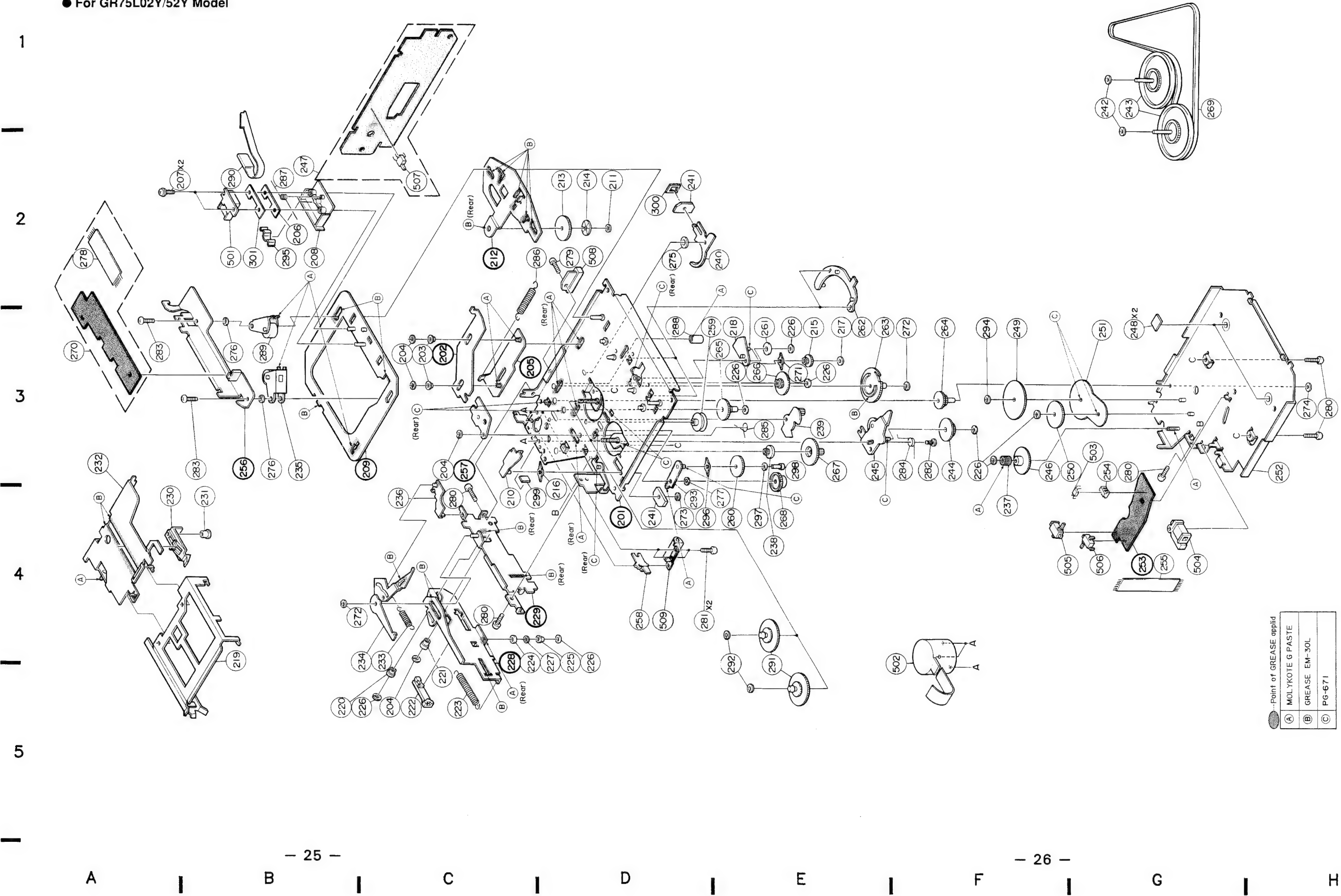
Notes : ◆; For GR75L020 model only ○; For GR75L02A model only
Others; Common

Symbol No.	IN-dex	Part No.	Description	
291	4-E	01T35403W02	Assy.. Reel	
292	4-E	04B41345P12	Washer, Lock(M1.7)	
293	4-D	01A30161W01	Assy.. Riv Lever Take Up	
294	3-F	04B41345P34	Washer, Lock(M1.2)	
295	2-B	26A20537W01	Shield, Plate	
296	4-D	41A40910W01	Spring, Clutch	
297	4-E	43A41543W01	Washer, Som(M1.2)	
298	3-E	47A41458W01	Pin, Take Up	
299	3-D	43A40388W01	Spacer, Polyslider	
300	2-D	43A41744W01	Lock, Solenoid	
Miscellaneous				
◆	501	2-B	88T15971W01	Head
○	502	4-E	01V23900W60	Assy.. Motor(13.2V-105mA)
	502	4-E	01V43400W37	Assy.. Motor(13.2V-88mA)
	503	3-C	51T15144W01	Sensor, Photo
	504	4-G	01T10371W01	R/F Sol. Assy
	505	4-F	40T15382W01	SW., Detector (Pack Down)
	506	4-G	40T15382W01	SW., Detector (Metal)
	507	2-C	40T15222W01	SW., Detector (Pack In)
	508	2-D	01T15249W01	Assy.. Play Solenoid
	509	4-D	01T10369W02	Assy.. Eject Solenoid

Notes : ◆; For GR75L020 model only ○; For GR75L02A model only
Others; Common

Exploded View (GR-Y Series) (3/4)

● For GR75L02Y/52Y Model



Cassette Deck Assembly Parts List (GR-Y Series) (3/4)

Note: The parts without parts list are not supplied.

Symbol No.	IN-dex	Part No.	Description
203	3-C	43A11072W01	Roll. Sub Head
204		04B41345P01	Washer, Lock(M1.2)
206	2-B	41A31756W01	Spring, Head
207	2-B	03S40019G03	Screw, F-Locks(M2x4)
208	2-B	43B12545W01	Tape, Guide
210	4-C	01A10206W01	Assy., Riv Lever R/F Sol.
211	2-D	04B41345P29	Washer, Lock(M2.6)
213	2-D	44A10295W01	Gear, Sensor
214	2-D	14A10681W01	Reflector
215	3-E	44A30480W01	Gear, Planet
216		41A10097W02	Spring, Clutch
217	3-E	04B41345P35	Washer, Lock(M1.7)
218	3-E	01A30824W01	Assy., Riv Lever Reverse
219	4-B	07B40283W01	Holder, Cassette
220	5-B	43A12583W01	Roller, Eject
221	5-C	43A63281F01	Roller, Plate Base
222	5-C	44A82206F01	Rack
223	5-C	41B10386W03	Spring, GR(Rack)
224	4-C	43A10121W01	Roller, Eject(A)
225	4-D	43A10360W01	Roller, Eject(B)
226		04B41345P11	Washer, Lock(M1.2)
227	4-D	43A12377W01	Roller, Eject(C)
230	4-A	45B10376W01	Slider
231	4-B	47A63278F01	Shaft, Slider
232	4-A	01A10212W01	Assy., Riv Plate Base
233	4-C	41B10386W01	Spring, Eject Arm
234	4-B	01A21754W01	Assy., Riv Eject Arm(A)
235	3-B	01B30863W02	Assy., Pinch Roller
236	4-C	45A10087W01	Lever, Pack In SW.
237	4-F	44A20314W01	Pinion, Eject
238	4-E	44A13617W01	Gear, Motor Idler(B)
239	3-E	01A10201W02	Assy., Riv Lever Pause
240	2-D	45A40725W01	Lever, Play Sol.
241		76T10374W01	Chip
242	1-G	04S40075G05	Washer, Polyslider (M2.1)
243	1-G	01A10368W01	Assy., Flywheel
244	3-F	44A10141W01	Gear, Eject Idler
245	3-E	01A10205W02	Assy., Riv Lever Clutch(A)
246	3-F	44A10145W01	Gear, Eject
☆ 247	2-B	01V23700W03	Assy., GR Control P.C. Board

Notes:☆: For GR75L02Y model only ◇: For GR75L52Y model only
Others: Common

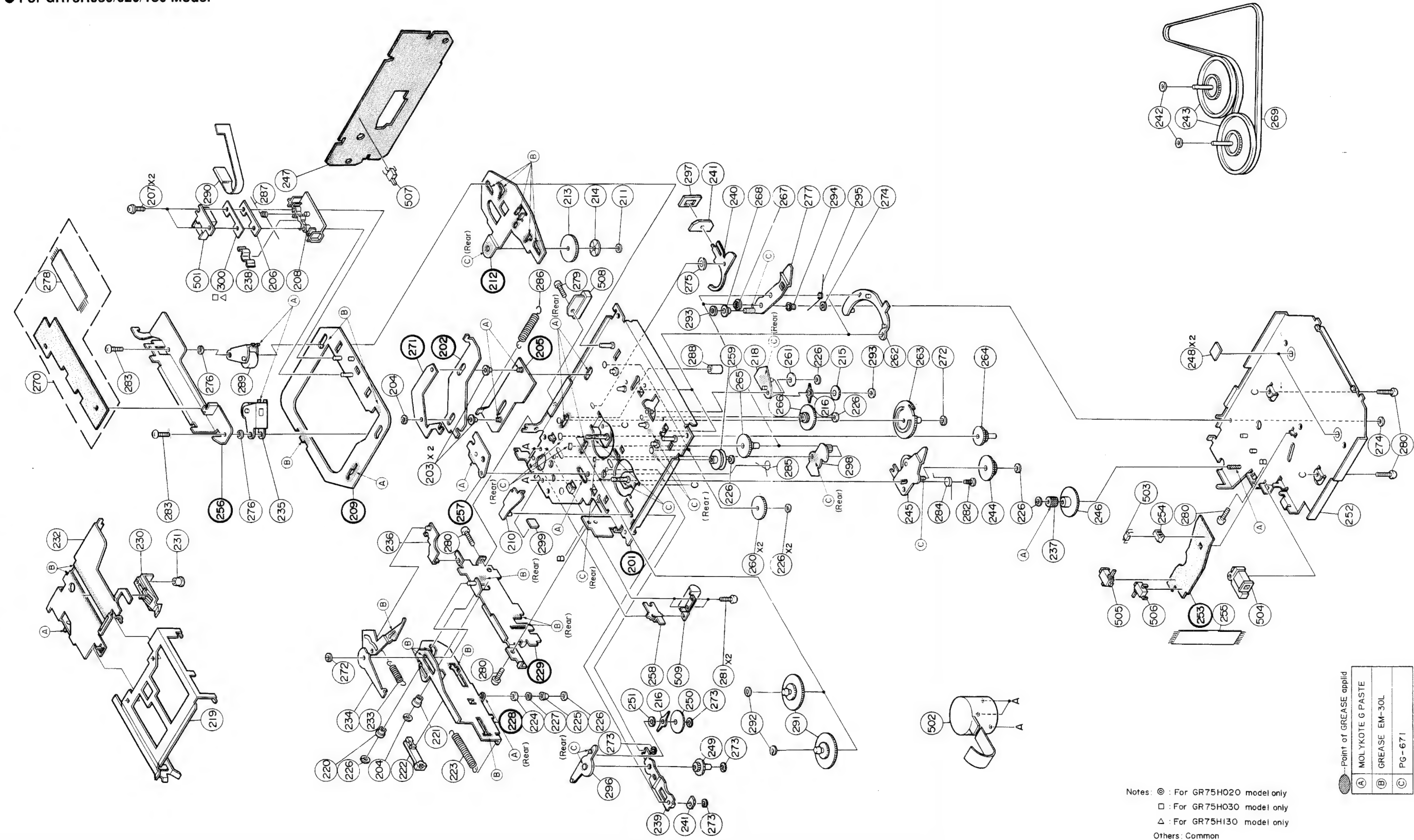
Symbol No.	IN-dex	Part No.	Description
◇ 247		01V44200W74	Assy., GR Control P.C. Board
248	3-G	43A41656W01	Spacer, UHMW
249	3-F	44A11063W01	Gear, Bottom(A)
250	3-F	44A11064W01	Gear, Bottom(B)
251	3-G	34A11122W02	Washer, GR
252	3-H	01A10210W02	Assy., Riv. Cover Bottom
254	3-G	15B11065W01	Guide, Photo
255	4-G	30T15126W01	Wire, PC Sensor(7P)
258	4-D	45A10101W01	Lever, Eject Sol.
259	3-D	49A10131W01	Pulley, Idler
260	4-E	44A10133W01	Gear, Take Up
261	3-E	44A10134W01	Gear, Sun
262	3-E	44B10135W01	Gear, Fix
263	3-E	44B21670W01	Gear, Pause
264	3-F	44A10137W01	Gear, Pause Idler(A)
265	3-D	44A10379W01	Gear, Pause Idler(B)
266	3-E	44A10138W01	Gear, Reverse Idler
267	3-E	44A10139W01	Gear, Motor Idler
268	4-E	44A11062W01	Gear, Reel Idler
269	1-G	42A10380W01	Belt, GR
270	3-A	01V33300W03	Assy., GR Audio P.C. Board
271	3-E	41A30475W01	Spring, Clutch
272	3-F	04B41345P15	Washer, Lock(M1.2)
273		04B41345P02	Washer, Lock(M1.7)
274	3-H	04B41345P17	Washer, Lock(M1)
275	2-D	04B41345P30	Washer, Lock(M3.1)
276	3-B	04B41345P32	Washer, Lock(M3.1)
277	4-E	04B41345P37	Washer, Lock(M2.1)
278	2-A	30T15126W02	Wire, PC Joint 7P
279	2-D	03S44205G78	Screw, Pan(M2x6)
280		03S44205G30	Screw, Pan(M2.6x4)
281	4-D	03S72235F53	Screw, Pan(M2x3.3)
282	3-F	03A12132W02	Screw, Eject Clutch (M2x2.3)
283		03S43997P64	Screw, Pan(M1.7x3)
284	3-F	41A10384W01	Spring, Eject Clutch
285	3-E	41A10385W01	Spring, Cas. Push
286	2-C	41B10386W02	Spring, Sub Head
287	2-B	41A10387W01	Spring, Pinch Roller
288	3-D	43A12719W01	Roller, Pause
289	3-B	01B30863W01	Assy., Pinch Roller
290	2-B	84T35271W01	Head P.C. Board

Symbol No.	IN-dex	Part No.	Description
291	4-E	01T35403W02	Assy., Reel
292	4-E	04B41345P12	Washer, Lock(M1.7)
293	4-D	01A30161W01	Assy., Riv Lever Take Up
294	3-F	04B41345P34	Washer, Lock(M1.2)
295	2-B	26A20537W01	Shield, Plate
296	4-D	41A40910W01	Spring, Clutch
297	4-E	43A41543W01	Washer, Som(M1.2)
298	3-E	47A41458W01	Pin, Take Up
299	3-C	43A40388W01	Spacer, Polyslider
300	2-D	43A41744W01	Lock, Solenoid
301	2-B	41A41416W01	Spring, Head
Miscellaneous			
☆ 501	2-B	88T15971W01	Head
◇ 502	4-E	01V23900W60	Assy., Motor(13.2V-105mA)
◇ 502	4-E	01V44200W73	Assy., Motor(13.2V-80mA)
503	3-G	51T15144W01	Sensor, Photo
504	4-G	01T10371W01	R/F Sol. Assy
505	4-F	40T15382W01	SW., Detector (Pack Down)
506	4-G	40T15382W01	SW., Detector (Metal)
507	2-C	40T15222W01	SW., Detector (Pack In)
508	2-D	01T15249W01	Assy., Play Solenoid
509	4-D	01T10369W02	Assy., Eject Solenoid

Notes:☆: For GR75L02Y model only ◇: For GR75L52Y model only
Others: Common

Exploded View (GR75H Series) (4/4)

● For GR75H030/020/130 Model



Cassette Deck Assembly Parts List (GR75H Series) (4/4)

Note: The parts without parts list are not supplied.

Symbol No.	IN-dex	Part No.	Description
	203	3-C 43A31453W01	Roller, Sub Head
	204	04B41345P01	Washer, Lock(M1.2)
	206	2-B 41A31756W01	Spring, Head
	207	2-A 03A38021W01	Screw, Flange(M2x4)
	208	2-B 43B12545W01	Tape, Guide
	210	4-C 01A30462W01	Assy., Riv Lever R/F Sol
	211	2-D 04B41345P29	Washer, Lock(M2.6)
	213	2-D 44A10295W01	Gear, Sensor
	214	2-D 14A10681W01	Reflector
	215	3-E 44A30480W01	Gear, Planet
	216	41A30475W01	Spring, Clutch
	218	3-E 01A30824W01	Assy., Riv Lever Reverse
⊙	219	4-B 07B40283W01	Holder, Cassette
□	219	4-B 07B40283W01	Holder, Cassette
△	219	4-B 07B40012W01	Holder, Cassette
	220	5-B 43A12583W01	Roller, Eject
	221	5-C 43A63281F01	Roller, Plate Base
	222	5-C 44A82206F01	Rack
⊙	223	5-C 41B10386W03	Spring, GR(Rack)
□	223	5-C 41B10386W03	Spring, GR(Rack)
△	223	5-C 41B10386W04	Spring, GR(Rack)
	224	5-C 43A10121W01	Roller, Eject A
	225	5-D 43A10360W01	Roller, Eject B
	226	04B41345P11	Washer, Lock(M1.2)
	227	5-D 43A12377W01	Roller, Eject C
	230	4-A 45B10376W01	Slider
	231	4-B 47A63278F01	Shaft, Slider
⊙	232	4-A 01A10212W01	Assy., Riv Plate Base
□	232	4-A 01A10212W01	Assy., Riv Plate Base
△	232	4-A 01A40024W01	Assy., Riv Plate Base
⊙	233	5-C 41B10386W01	Spring, Eject Arm
□	233	5-C 41B10386W01	Spring, Eject Arm
△	233	5-C 41B63283F11	Spring
⊙	234	5-C 01A30883W01	Assy., Riv Eject Arm B
□	234	5-C 01A30883W01	Assy., Riv Eject Arm B
△	234	5-C 01A40021W01	Assy., Riv Eject Arm D
	235	3-B 01B30863W02	Assy., Pinch Roller
	236	4-C 45A10087W01	Lever Pack In SW
	237	4-F 44A20314W01	Pinion, Eject
	238	2-B 26A20537W01	Shield, plate
	239	5-D 01A40881W01	Assy., Riv RF Link
	240	2-D 45A40725W01	Lever, Play Sol.
	241	76T10374W01	Chip
	242	1-G 04S40075G05	Washer, Polyslider(M2.1)
	243	1-G 01A30488W01	Assy., Flywheel

Symbol No.	IN-dex	Part No.	Description
	244	3-F 44A10141W01	Gear, Eject Idler
	245	3-E 01A10205W02	Assy., Riv Lever Clutch A
	246	3-F 44A10145W01	Gear, Eject
	247	2-B 01V33500W45	Assy., GR Control P.C. Board
	248	3-G 43A41656W01	Spacer, UHMW
	249	5-D 44A30481W01	Gear, RF Idler
	250	4-D 44A30483W01	Gear, RF
	251	4-D 04S40075G58	Washer, Polyslider(M2.1)
	252	3-H 01A30463W01	Assy., Riv. Cover Bottom
	254	3-G 15B11065W01	Guide, Photo
	255	4-G 30T15126W01	Wire, PC Sensor(7P)
	258	4-D 45A10101W01	Lever, Eject Sol
	259	3-D 49A30476W01	Pulley, Idler
	260	4-E 44A30482W01	Gear, Take Up
	261	3-E 44A30478W01	Gear, Sun
	262	3-E 44B10135W01	Gear, Fix
	263	3-E 44B30484W01	Gear, Pause
	264	3-F 44A10137W01	Gear, Pause Idler A
	265	3-E 44A30486W01	Gear, Pause Idler B
	266	3-E 44A30479W01	Gear, Reverse Idler
	267	2-E 44A30485W01	Gear, Motor Idler
	268	2-E 44A30487W01	Gear, Motor Clutch
	269	1-G 42A31850W01	Belt, GR
⊙	270	3-A 01V43400W38	Assy., GR Audio P.C. Board
□	270	3-A 01V33300W03	Assy., GR Audio P.C. Board
△	270	3-A 01V33300W03	Assy., GR Audio P.C. Board
	272	3-F 04B41345P15	Washer, Lock(M1.2)
	273	04B41345P02	Washer, Lock(M1.7)
	274	3-H 04B41345P17	Washer, Lock(M1)
	275	2-D 04B41345P30	Washer, Lock(M3.1)
	276	3-B 04B41345P32	Washer, Lock(M3.1)
	277	2-E 01A30464W01	Assy., Riv Play Clutch
	278	2-A 30T15126W02	Wire, PC Joint 7P
	279	2-D 03S44205G78	Screw, Pan(M2x6)
	280	03S44205G30	Screw, Pan(M2.6x4)
	281	4-D 03S72235F53	Screw, Pan(M2x3.3)
	282	3-F 03A12132W02	Screw, Eject Clutch(M2x2.3)
	283	03S43997P64	Screw, Pan(M1.7x3)
	284	3-F 41A10384W01	Spring, Eject Clutch
	285	3-E 41A10385W01	Spring, Cas Push
	286	2-C 41B10386W02	Spring, Sub Head
	287	2-B 41A10387W01	Spring, Pinch Roller
	288	3-D 43A12719W01	Roller, Pause
	289	3-B 01B30863W01	Assy., Pinch Roller
⊙	290	2-B 84T25151W01	Head P.C. Board

Notes: ⊙ ; For GR75H020 model only □ ; For GR75H030 model only
 △ ; For GR75H130 model only Others ; Common

Symbol No.	IN- dex	Part No.	Description
<input type="checkbox"/> 290	2-B	84T35271W01	Head P.C. Board
<input type="checkbox"/> 290	2-B	84T35271W01	Head P.C. Board
<input type="checkbox"/> 291	5-E	01T35403W01	Assy., Reel
<input type="checkbox"/> 292	5-E	04B41345P12	Washer, Lock (M1.7)
<input type="checkbox"/> 293	2-D	04B41345P35	Washer, Lock (M1.7)
<input type="checkbox"/> 294	2-E	43A30827W01	Spacer, Motor Idler
<input type="checkbox"/> 295	2-E	41A30490W01	Spring, Play Clutch
<input type="checkbox"/> 296	5-D	01A40882W01	Assy., Riv Lever RF
<input type="checkbox"/> 297	2-D	34A48030W01	Washer, Solenoid
<input type="checkbox"/> 298	3-E	01A10201W02	Assy., Riv Lever Pause
<input type="checkbox"/> 299	4-C	43A40388W01	Spacer, Polyslider
<input type="checkbox"/> 300	2-B	41A41416W01	Spring, Head
<input type="checkbox"/> 300	2-B	41A41416W01	Spring, Head
Miscellaneous			
<input checked="" type="checkbox"/> 501	2-B	88T15971W01	Head
<input type="checkbox"/> 501	2-B	88T35406W01	Head
<input type="checkbox"/> 501	2-B	88T35406W01	Head
<input type="checkbox"/> 502	5-F	01V41100W72	Assy., Motor (11.5v-85mA)
<input type="checkbox"/> 503	3-C	51T15144W01	Sensor, Photo
<input type="checkbox"/> 504	4-G	01T10371W01	R/F Sol. Assy.
<input type="checkbox"/> 505	4-F	40T15382W01	SW., Detector (Pack Down)
<input type="checkbox"/> 506	4-G	40T15382W01	SW., Detector (Metal)
<input type="checkbox"/> 507	2-C	40T15222W01	SW., Detector (Pack In)
<input type="checkbox"/> 508	2-D	01T15249W01	Assy., Play Solenoid
<input type="checkbox"/> 509	4-D	01T10369W02	Assy., Eject Solenoid

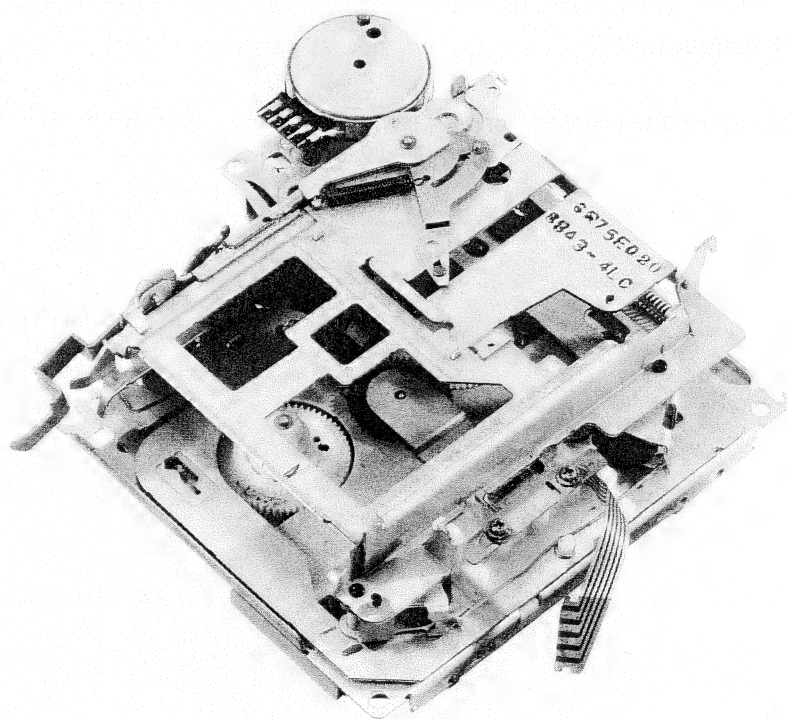
Notes: ☒ ; For GR75H020 model only ☐ ; For GR75H030 model only
☐ ; For GR75H130 model only Others : Common

YM206

ALPINE SERVICE MANUAL

Cassette Deck Mechanism

ADDENDUM & REVISED (III)



GR/GR-Y SERIES

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Memo

List of Usable Lock Washers

	SIZE	PARTS NO.	QUANTITY		
			GR75E Series	GR75L Series	GR-Y Series
1	(M1.2 × 3.5 × 0.25)	04B41345P01	8	7	6
2	(M1.7 × 3.5 × 0.25)	04B41345P02	1	1	2
3	(M2.1 × 5 × 0.25)	04B41345P06	1	1	0
4	(M1.2 × 2.5 × 0.25)	04B41345P11	7	7	8
5	(M1.7 × 3.5 × 0.35)	04B41345P12	2	2	2
6	(M1.2 × 3.5 × 0.35)	04B41345P15	1	1	1
7	(M1 × 2.5 × 0.25)	04B41345P17	1	1	1
8	(M2.6 × 5 × 0.25)	04B41345P29	1	1	0
9	(M3.1 × 8 × 0.05)	04B41345P30	1	1	1
10	(M1.7 × 3 × 0.25)	04B41345P31	1	1	1
11	(M3.1 × 5 × 0.35)	04B41345P32	2	2	2
12	(M1.2 × 2.5 × 0.3)	04B41345P34	1	1	0
13	(M2.1 × 4 × 0.25)	04B41345P37	0	0	1
14	(M2.6 × 4.7 × 0.25)	04B41345P38	0	0	1

List of Usable Oil

- 1) Molykote E paste
- 2) Grease EM-30L
- 3) Grease FLOIL 425A

List of Usable Jigs

- 1) GR bottom gear jig (Part No. 44A20788W01)
- 2) Head height adjustment gauge
AI-500 (Part No. AI-500)

Disassembly, Assembly and Replacement of Functional Parts

1. Disassembly and Assembly of Bottom Cover

- (1) Turn the mechanism around as shown in Figure 1.
- (2) Remove M1 lock washer ① as shown in Figure 1.
- (3) Remove three screws ② as shown in Figure 1.
- (4) Lift the bottom cover slowly from the position ①-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
- (5) When remounting the bottom cover, first turn the front of the mechanism up as shown in Figure 2.
- (6) Slide the slider in the direction ①-2 as shown in Figure 2.
- (7) Push down the cassette holder in the direction ①-3 as shown in Figure 2.
- (8) Pull the door pin in the direction ①-4 so that the mechanism is locked in as shown in Figure 2.
- (9) Turn the mechanism around as shown in Figure 3.
- (10) Pull the automatic metal lever in the direction ①-5 and the RF solenoid chip in the direction ①-6 as shown in Figure 3.
- (11) Insert the hooks of the bottom cover into the chassis in the direction ①-7, and then join the part ①-8 of the bottom cover to the chassis slowly, making sure that the 3 points indicated with the straight lines in the Figure 3 are fitted properly.
If there are troubles in mounting the bottom cover, do not apply force but remove the bottom cover once again and check the positions of the individual parts. (Refer to Figure 3.)
- (12) Since the hooks marked ①-8 will be lifted slightly as shown in Figure 4, insert the jig through the hole ①-9, and fix it turning the jig slightly in the direction ①-11.
Instead of operation (12), turn the gear nose slowly with a precision screwdriver etc., taking care not to damage it.
After 2 to 3 turns, it will click into place.
(Refer to Figures 4 and 5.)
- (13) Fix the screws and the lock washer that have been removed.

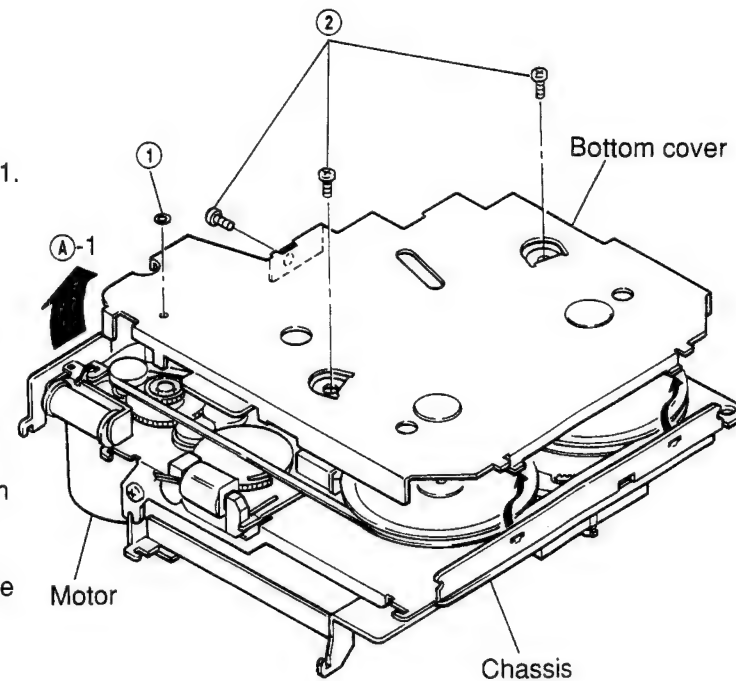


Figure 1

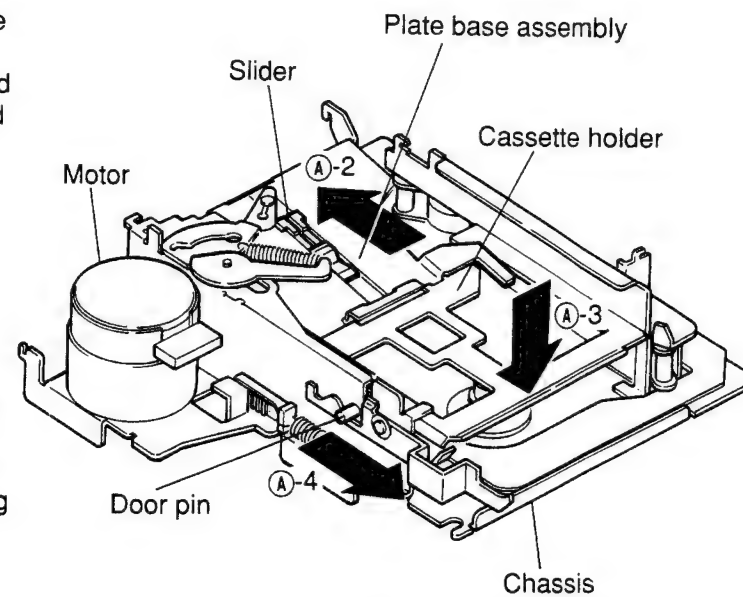


Figure 2

- (14) Insert the jig into the hole ①-9 as shown in Figure 4 and rotate the eject solenoid counterclockwise about 20 times, pulling it in the direction ①-10 with the finger. Then the eject operation is completed. Instead of operation (14), the eject operation can be performed by mounting the mechanism to the product. (Refer to Figures 4 and 5.)

Note: Do not reuse the used lock washers for mounting.
When turning the mechanism, be careful not to drop the gear and the flywheel.
Fasten the three screws with a fastening torque of 6 kg.cm.

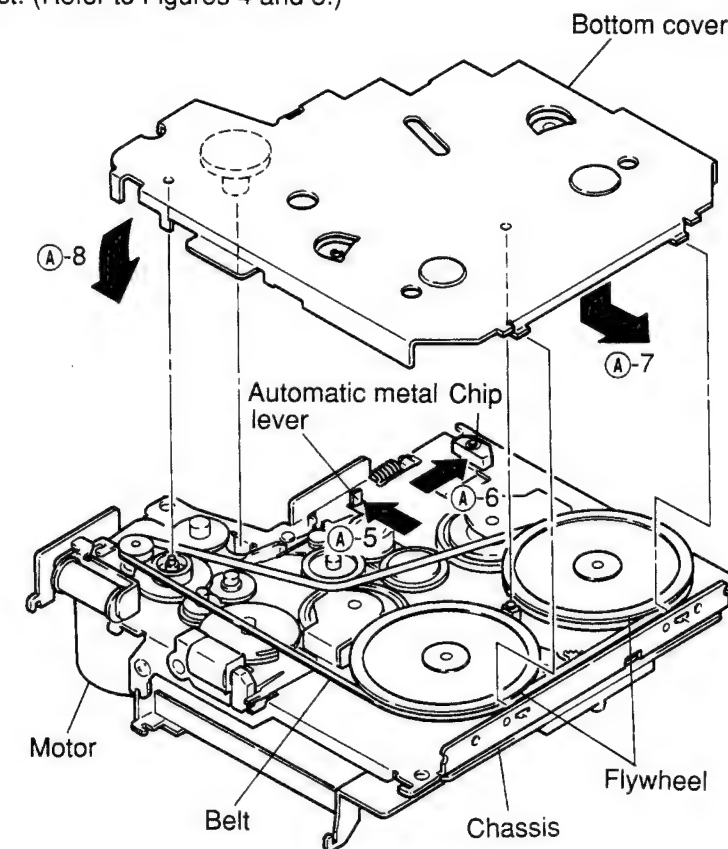


Figure 3

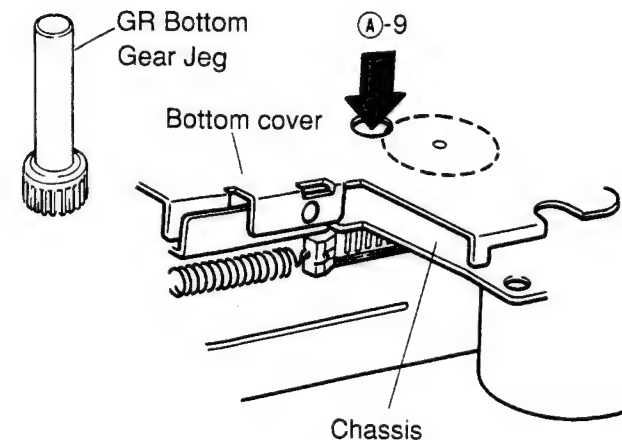


Figure 4

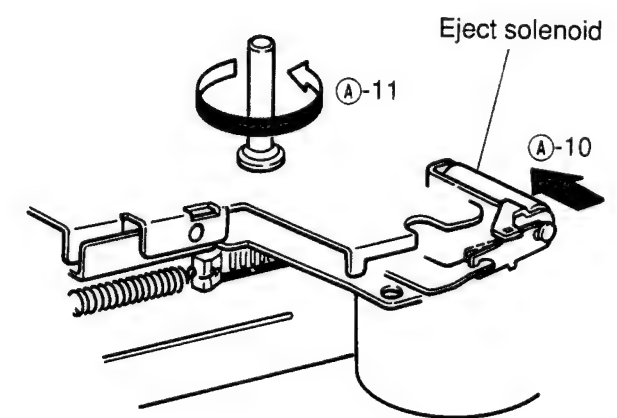


Figure 5

2. Replacement of the bottom cover mounting parts

a. Replacement of the eject gear

- (1) Remove M1.2 lock washer ③ as shown in Figure 6.
- (2) Pull the eject pinion out of the eject gear and remove the eject gear as shown in Figure 6.
- (3) Apply the molykote E paste to the section ⑧-1, and mount the eject gear following the removal steps in the reverse order. After replacement is finished, make sure that the gear rotates smoothly. (Refer to Figure 6.)

Note: Do not reuse the used lock washers for remounting.
Take care to avoid damage by piercing and tearing.

b. Replacement of the RF solenoid

- (1) Remove two solders ④ and remove the RF solenoid from the bottom cover by pulling it up as shown in Figure 6.
- (2) Replace the solenoid with a new one, and remount it following the removal steps in the reverse order as shown in Figure 6.

Note: When removing solder ④, set the temperature of the soldering iron to $350^{\circ} \pm 10^{\circ}$ and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged.

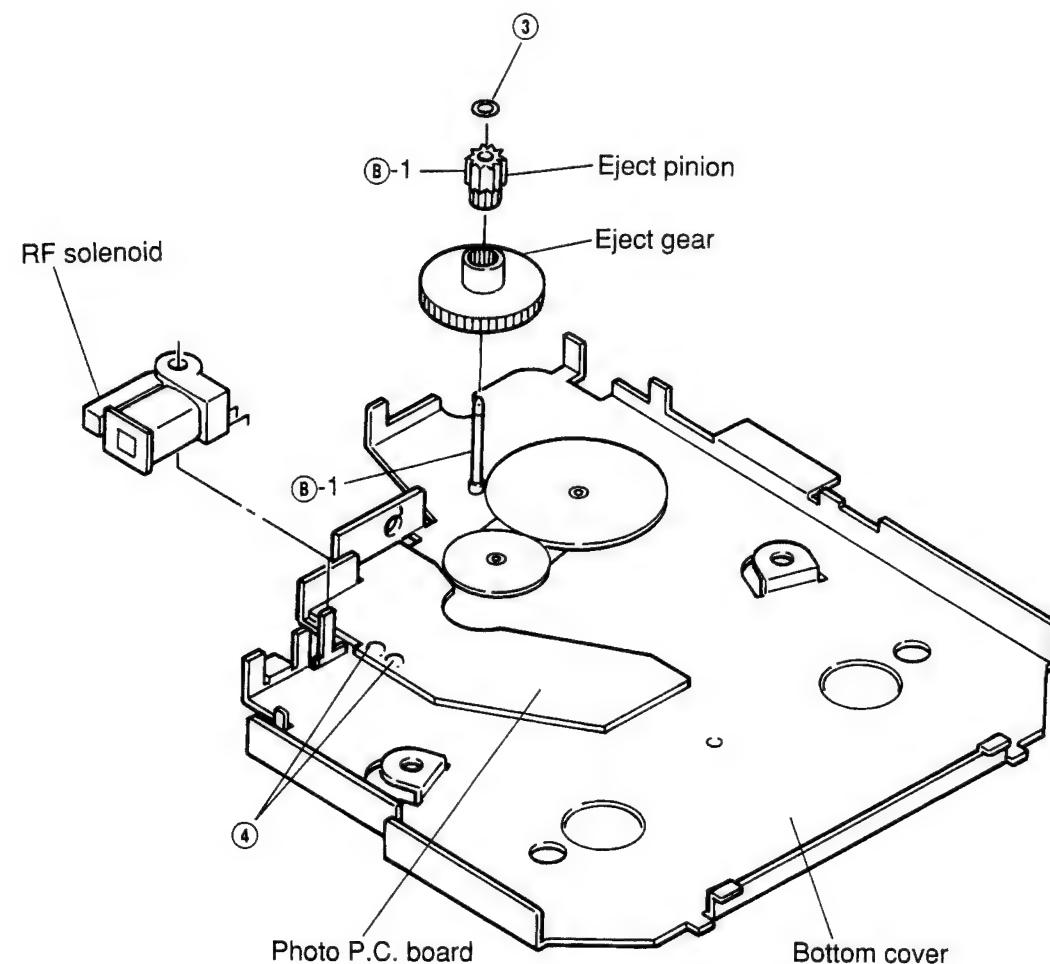


Figure 6

c. Replacement of the photo sensor

- (1) Remove four solders ⑤ as shown in Figure 7.
- (2) Remove the photo guide together with the photo sensor from the photo P.C. board as shown in Figure 7.
- (3) Insert the new photo sensor into the photo guide, and bend the legs of the photo sensor in the direction marked ⑧-2 as shown in Figure 7.
- (4) Insert the photo guide into the P.C. board and solder the legs so that the photo sensor is set as indicated by [] in Figure 7.

Note: When using the soldering iron, set the temperature of the soldering iron to $350^{\circ} \pm 10^{\circ}$ and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged. Also take care that the photo guide is properly fixed and straight.

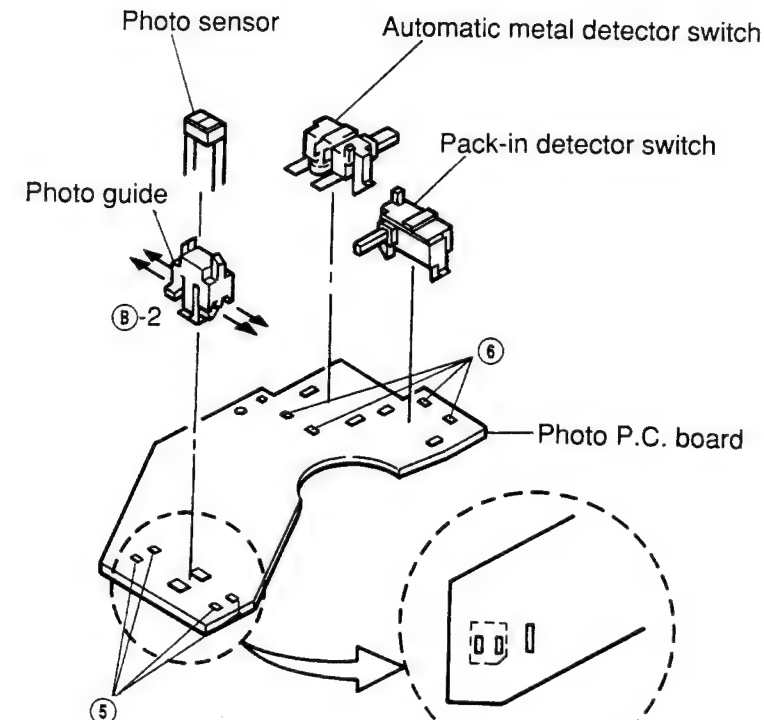


Figure 7

d. Replacement of the detector switch

(Automatic metal pack-in)

- (1) Remove 4 solders ⑥ with which the switch is fixed as shown in Figure 7.
- (2) Prepare the terminals of the switch of the new solder as shown in Figure 8.
- (3) After that, insert the switch into the photo P.C. board, and solder the terminals.

Note: When using the soldering iron, refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Also take care that the switch guide is properly fixed and straight.

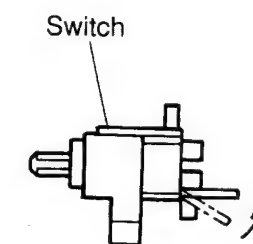


Figure 8

3. Replacement of the mounting parts on the rear of the main chassis

a. Replacement of the belt

- (1) After removing the bottom cover, remove the belt.
- (2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 9.

Note: When fixing the belt, make sure that it is not twisted or dirty. When removing the belt, do not turn up the front of the chassis.

b. Replacement of the motor

- (1) After removing the belt, remove spring ⑦ as shown in Figure 10.
- (2) Remove solder ⑧-1, and remove the parallel wire (5P) from the control P.C. board as shown in Figure 11.
- (3) Remove two screws ⑨ and ⑩, and remove the motor, taking care not to damage the motor idler gear. (Refer to Figure 10.)
- (4) Mount the new motor following the removal steps in the reverse order.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Since the parallel wire is very easily damaged, handle it with care. Fasten the two screws with a fastening torque of 3 kg.cm.

*When inserting the clutch spring, be careful of the inserting direction as shown in the Figure.

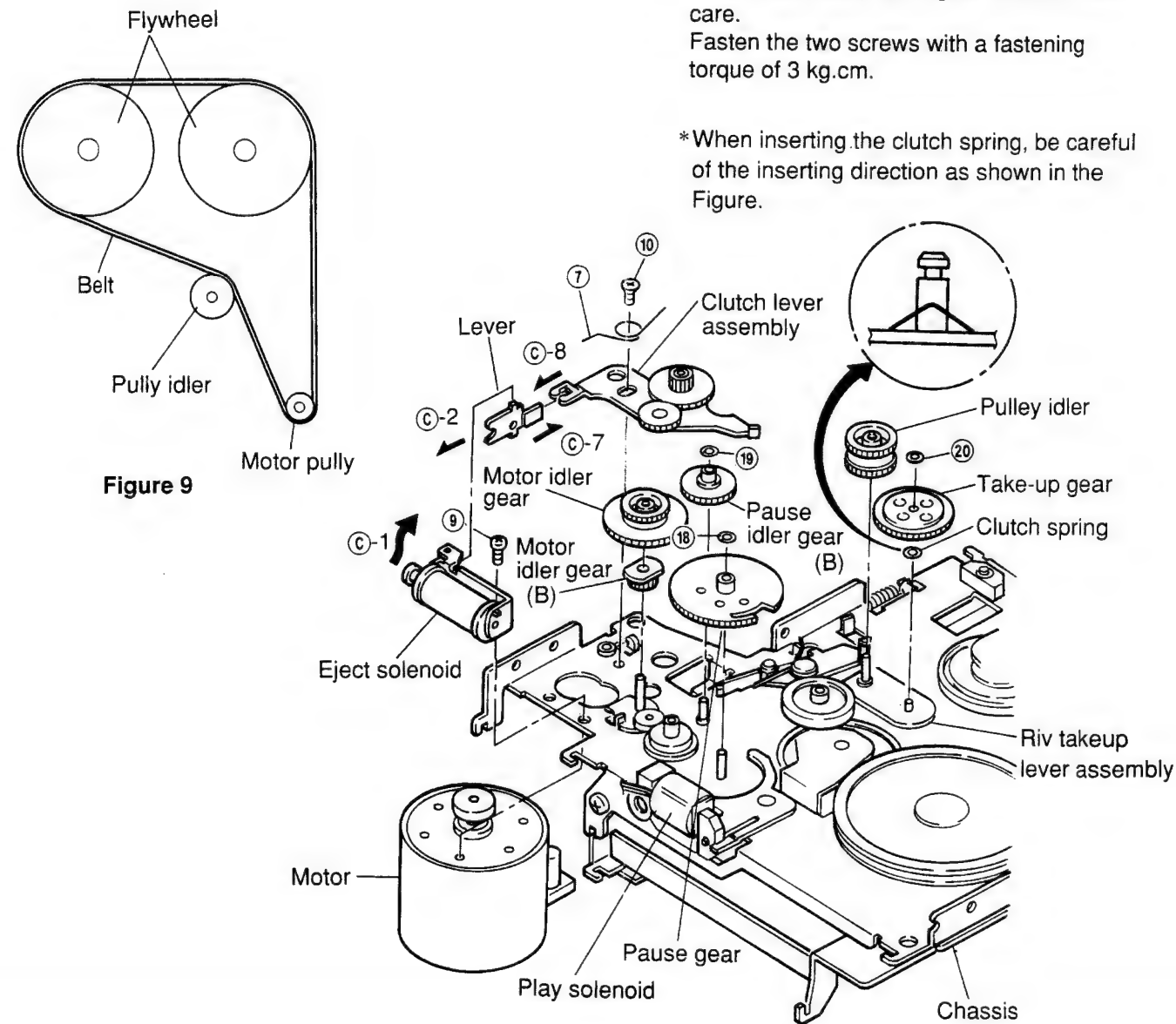


Figure 10

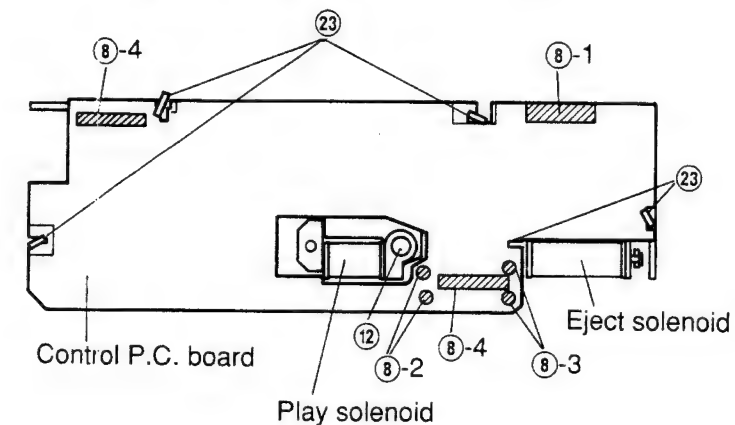
c. Replacement of the flywheels

- (1) After removing the belt, pull out the two flywheels. Take care not to lose the polyslider washer ⑪ located between the flywheel and the chassis. (Refer to Figure 12.)
- (2) Fix the polyslider washer to the new flywheel and mount the flywheel to the chassis.

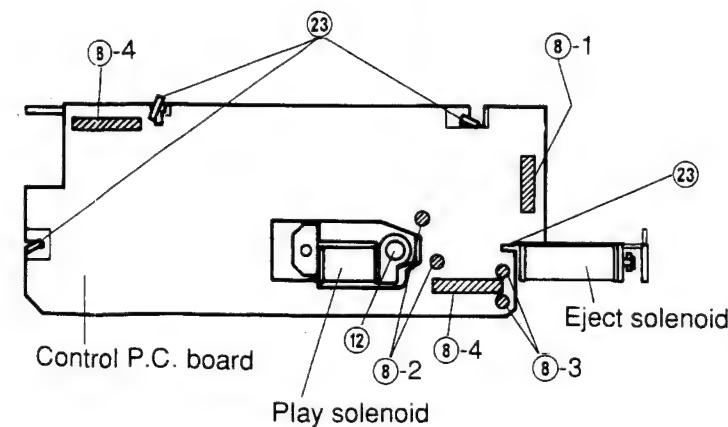
d. Replacement of the play solenoid

- (1) Remove the two solders ⑧-2 as shown in Figure 11.
- (2) Remove one screw ⑫ and remove the solenoid as shown in Figure 11.
- (3) Mount the new solenoid following the removal steps in the reverse order.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 2.3 kg.cm.



[For GR75E020, GR75E010, GR75E01A, GR75E01C models]



[For GR75L020, GR75L010 models]

Figure 11

e. Replacement of the eject solenoid

- (1) Remove two solders ⑧-3. Take care not to lose the tube that protects the wire. (Refer to Figure 11.)
- (2) Remove screw ⑨ and remove the play solenoid as shown in Figure 10.
- (3) Align position ⑥-1 of the new solenoid with position ⑥-2 of the lever and fasten the screw as shown in Figure 10.
- (4) Lead the wire through the tube and solder it.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 3 kg.cm. As the solder wires are not insulated, do not let them cross each other.

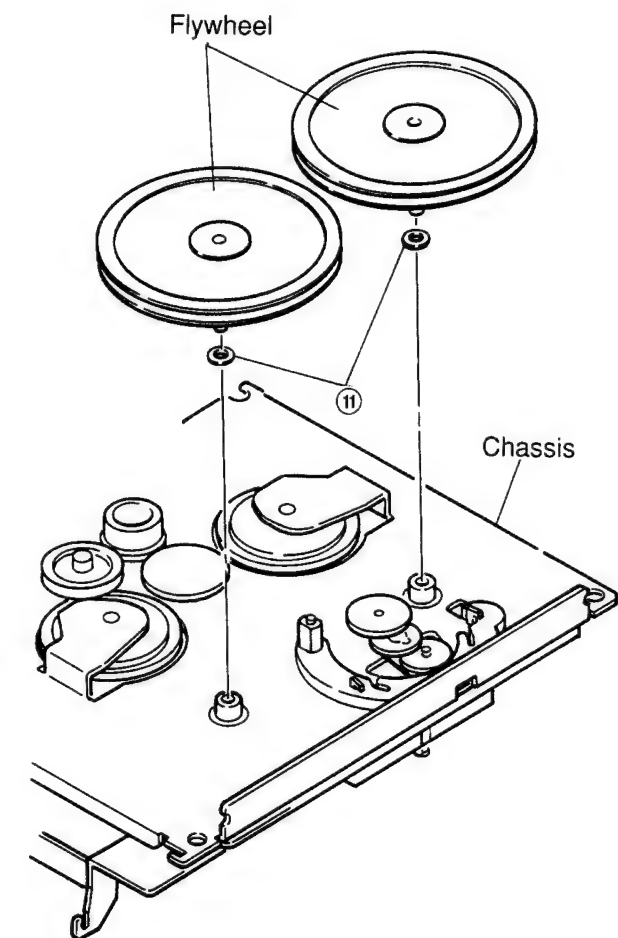


Figure 12

Suyel

f. Replacement of gears

(f-1) Replacement of the reverse idler gear

- (1) Remove M1.2 lock washer ⑬, pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Remount following the removal steps in the reverse order.

(f-2) Replacement of the sun gear

- (1) Remove M1.2 lock washer ⑭, pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Mount it, following the removal steps in the reverse order.

(f-3) Replacement of the fixing gear

- (1) Adjust the two mounting claws for the fix gear on the chassis ⑮ and remove the section ③ of the gear by pulling it up in the direction of the arrow shown in Figure 13.
- (2) Insert the section ④ of the new gear into the chassis, and mount it following the removal steps in the reverse order as shown in Figure 13.

(f-4) Replacement of the reverse lever assembly and planet gear

- (1) Remove both the fixing gear and the sun gear and remove the reverse lever assembly as shown in Figure 13.
- (2) Remove M1.7 lock washer ⑯ and remove the planet gear as shown in Figure 14.
- (3) Mount the new planet gear and reverse lever following the removal steps in the reverse order.

Notes on f-1 through f-4:

After mounting all parts, check if the reverse lever moves in the directions marked ⑤ when the reverse gear is turned clockwise and counterclockwise.

* After mounting the fixing gear, bend the claws ⑮ into the form of as shown in the Figure.

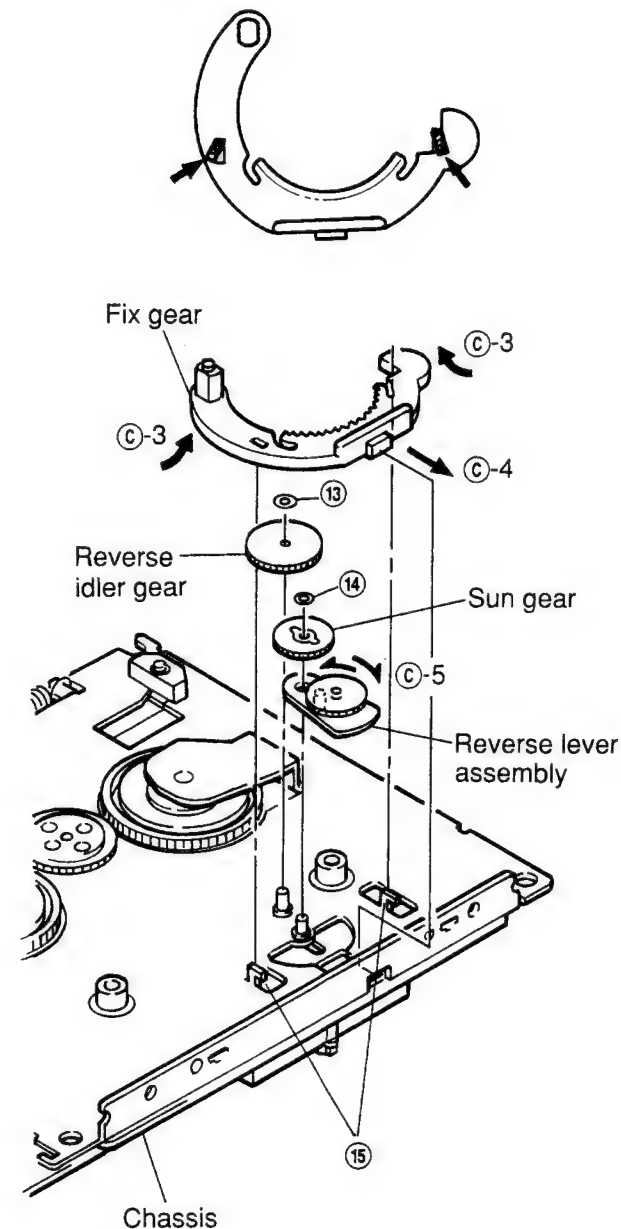


Figure 13

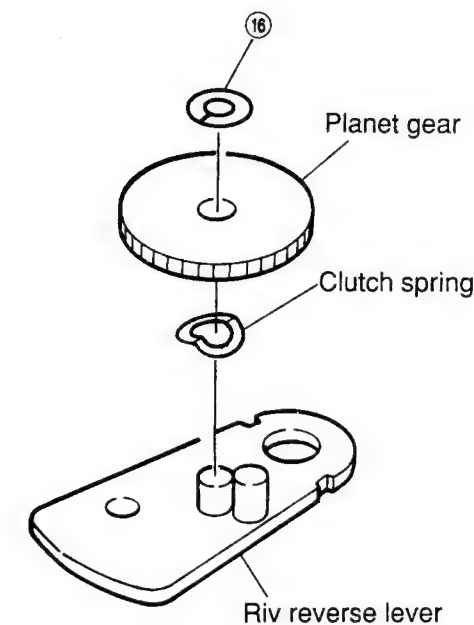
(f-5) Replacement of the clutch lever assembly and eject idler gear

- (1) After removing the motor, remove the motor idler gear and the motor idler gear (B) and remove the clutch lever assembly as shown in Figure 10.
- (2) Remove M1.2 lock washer ⑰ and remove the eject idler gear as shown in Figure 15.
- (3) Mount the new gears and clutch lever following the removal steps in the reverse order.

Note: When mounting the gears to the lever, apply grease (FLOIL 425A) to the position ⑥ as shown in Figure 15. Align the position ⑦ with the position ⑧ and mount the clutch lever as shown in Figures 10 and 15.

(f-6) Replacement of the pause gear

- (1) Remove M1.2 lock washer ⑱ and remove the pause gear pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear following the removal steps in the reverse order.



[Disassembly Reverse Lever Assembly]

Figure 14

(f-7) Replacement of the pause idler gear (B)

- (1) After removing the motor and the motor idler gear, remove M1.2 lock washer ⑲ and remove the gear by pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear by following the removal steps in the reverse order.

(f-8) Replacement of the take-up gear

- (1) After removing the belt and the pulley idler gear, remove M1.2 lock washer ⑳ by pulling it up from the stud of the riv take-up lever assembly as shown in Figure 10.
- (2) Remount the take-up gear following the removal steps in the reverse order.

Notes on f:

Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

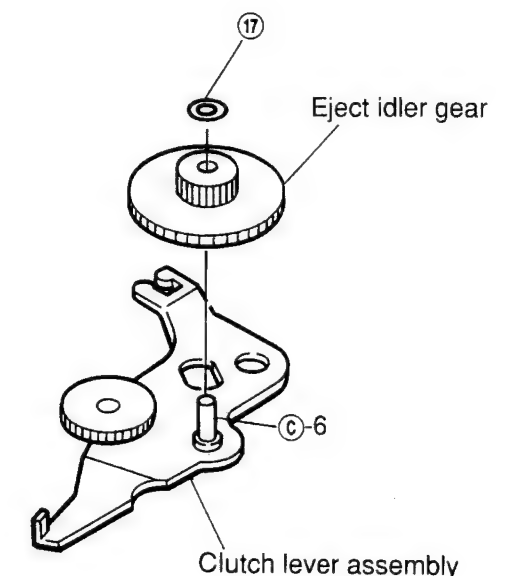


Figure 15

4. Replacement of the parts mounted on the front of the chassis

a. Replacement of the audio P.C. board

- (1) Remove two solders (21) and remove the parallel wire (7P) and the head P.C. board as shown in Figure 16.
- (2) Adjust the two claws (22) to the rectangular holes on the P.C. board and remove the P.C. board as shown in Figure 16.
- (3) After replacement, mount the new P.C. board following the removal steps in the reverse order.

Note: The head P.C. board and the parallel wire are easily damaged. Handle them with care. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board.

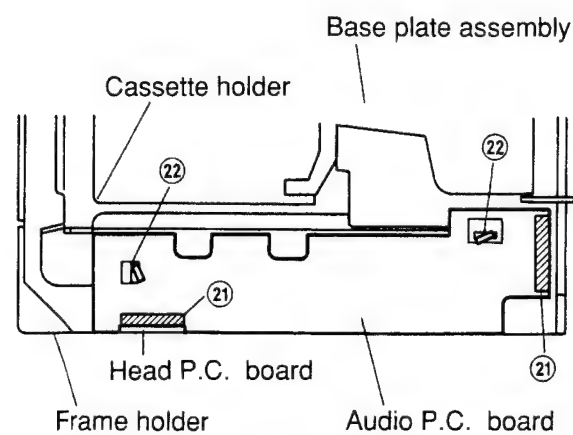


Figure 16

b. Replacement of the control P.C. board

- (1) Remove seven solders (8) and remove the three parallel wires and the wires of the eject solenoid and of the play solenoid as shown in Figure 11.
- (2) Remove five claws (23) and remove the P.C. board as shown in Figure 11. [For GR75E020, GR75E010, GR75E01A, GR75E01C models] Remove four claws (23) and remove the P.C. board as shown in Figure 11. [For GR75L020, GR75L010 models]
- (3) After replacing the old P.C. board with a new one, mount it following the removal steps in the reverse order.

Note: As mentioned in Item 4-a, handle the parallel wires carefully, and be sure that the temperature of the soldering iron and the soldering time are proper. As the wires of the eject solenoid are not insulated, do not let them cross each other.

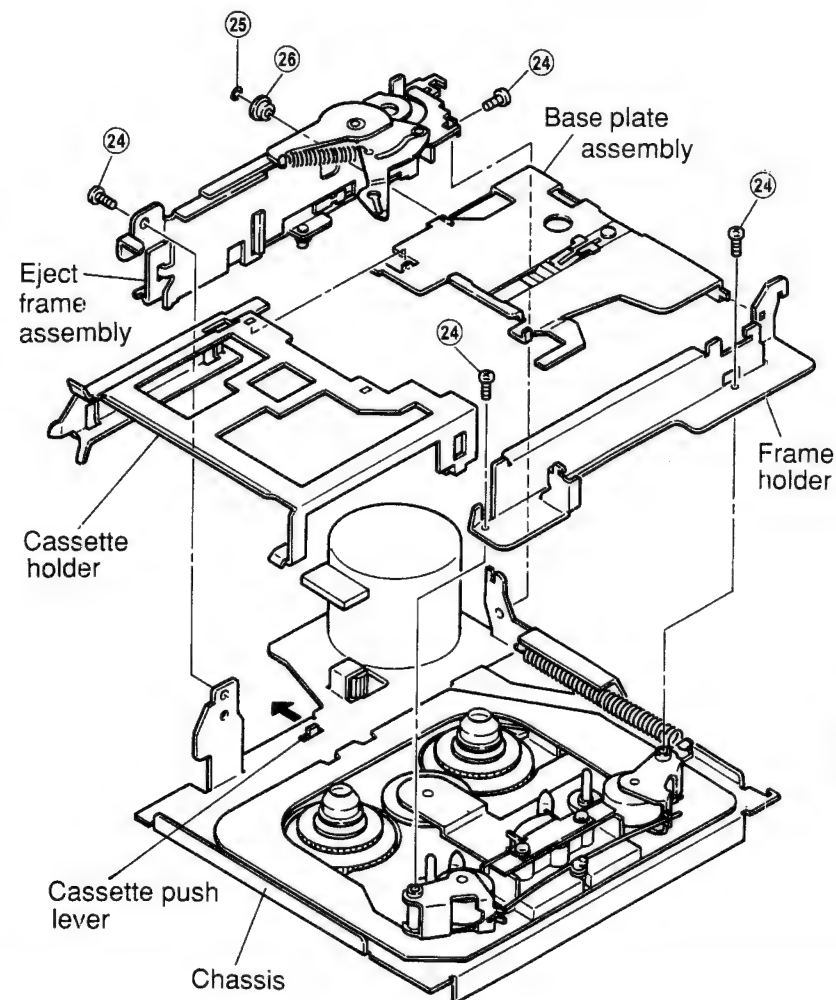


Figure 17

c. Disassembly and assembly of the cassette holder

- (1) Remove four screws (24) and remove the eject frame assembly and the frame holder as shown in Figure 17.
- (2) Remove M1.2 lock washer (25) and plate base roller (26) and remove the cassette holder and the base plate assembly as shown in Figure 17.
- (3) Remount them following the removal steps in the reverse order.

- Notes:**
1. When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indicated by the arrow in the figure. Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 18).
 2. When mounting the eject frame assembly, push the cassette push lever in the direction indicated by the arrow in the Figure 17.
 3. When mounting the base plate assembly and the eject frame assembly, or when mounting the eject frame assembly to the chassis, do not apply excessive force to avoid deformations of the eject arm and the frame.
 4. Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

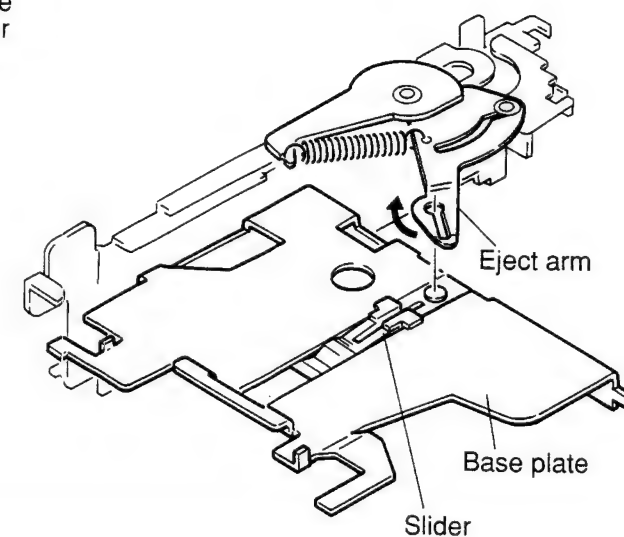


Figure 18

d. Replacement of the reels

- (1) Remove M1.7 two lock washers (26) (Refer to figure 19).
- (2) Move the select lever in the direction marked (D-1) in the Figure and remove the reel by gripping the reel gear as shown in Figure 19.
- (3) After replacement, mount the new reels following the removal steps in the reverse order.
- (4) After mounting, check the tape speed and the wow and flutter with test tape MTT-111.

Note: Since the reel is easily loosened if the cap is gripped, always handle it gripping the gear. Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

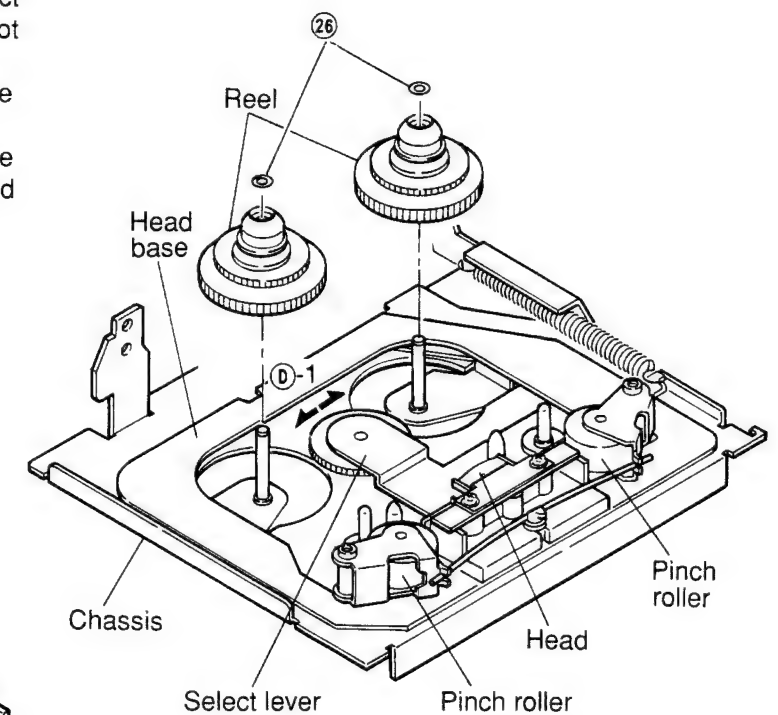
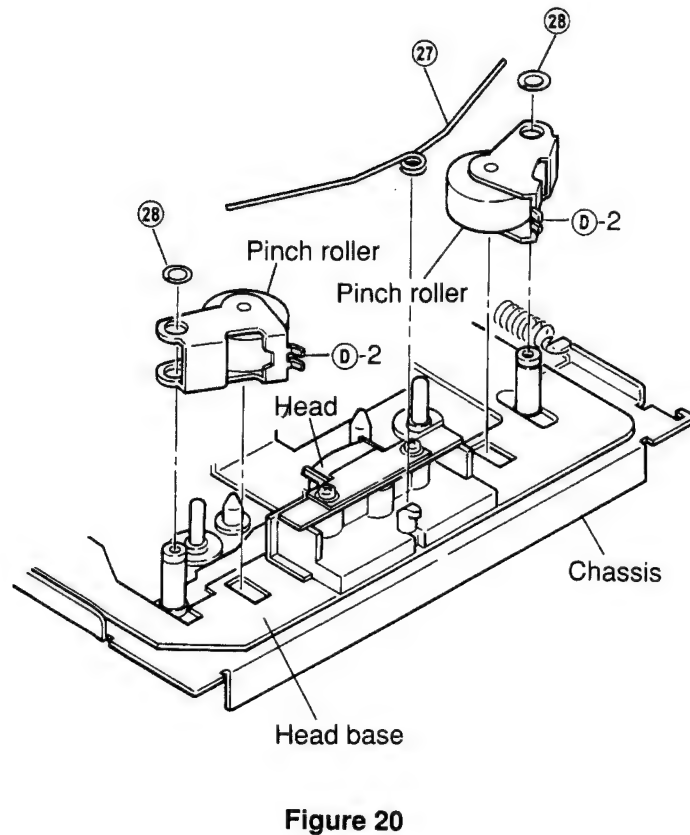


Figure 19

e. Replacement of the pinch rollers

- (1) Remove pinch roller spring ②⑦ as shown in Figure 20.
- (2) Remove M3.1 two lock washers ②⑧ and remove the pinch roller as shown in Figure 20.
- (3) Mount the pinch rollers following the removal steps in the reverse order.
Apply insulation coating to the position ②⑨-2 of the pinch roller as shown in Figure 20.

Note: Make sure that the pinch rollers are thoroughly fixed and that they are not deformed. Do not reuse used lock washers. Take care to avoid damage by piercing and tearing.



f. Replacement of the head

- (1) After removing the pinch roller spring, remove two screws ②⑨ as shown in Figure 21.
- (2) Remove solder ③⑩ and remove the head from the head P.C. board as shown in Figure 22.
- (3) After replacement, mount the new head following the removal steps in the reverse order.

Notes: 1. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board. Make sure that the head P.C. board is not lifted.
2. Fasten the two screws with a fastening torque of 2.3 kg.cm. Note that the tension of the head spring can be decreased if the screws are fastened too strongly.

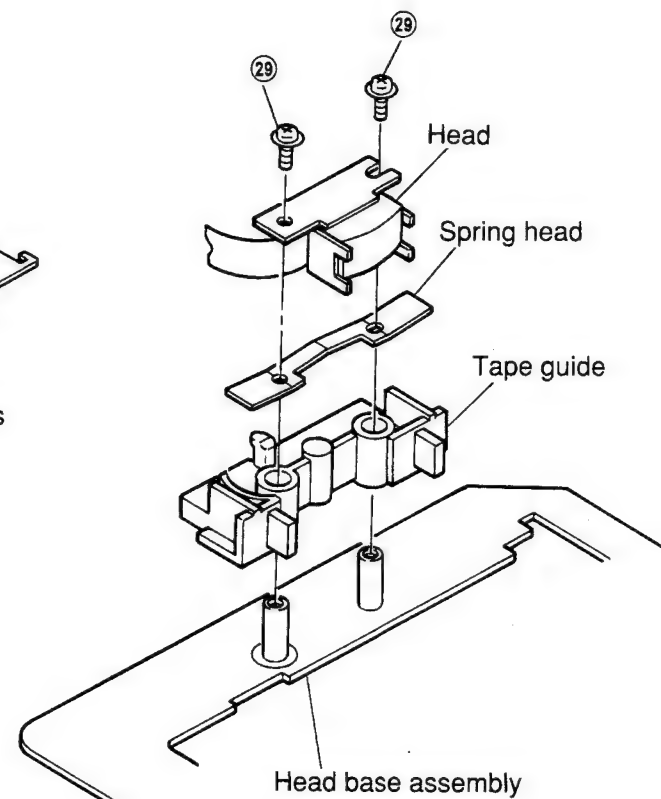


Figure 21

- (4) Adjust the height of the head as shown in Figures 23, 24 and 25.

- ① Place the height adjustment gauge (AI-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.
- ② When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t 0.1 mm or polislider washer t 0.13 mm). If necessary, remove the spacer.

Note: If you do not have a height gauge like described in (4)-①, run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.

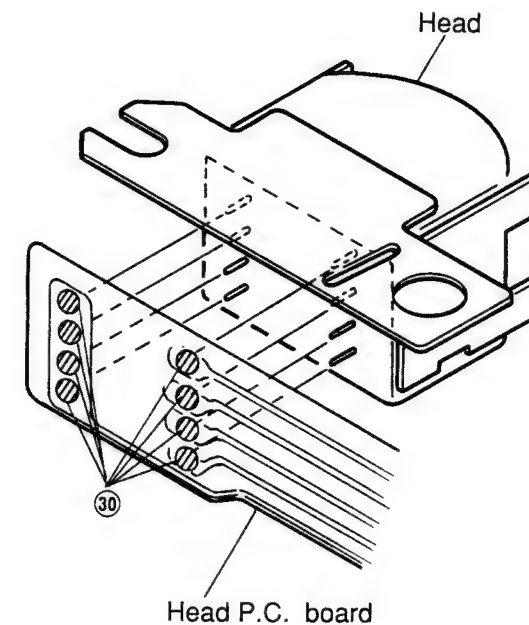


Figure 22

- (5) After having assembled the complete mechanism, adjust the angle of the head with test tape MTT-113C. (Refer to chapter "Adjustment of the head angle".) After the adjustment, apply the screw lock and fix the screws.

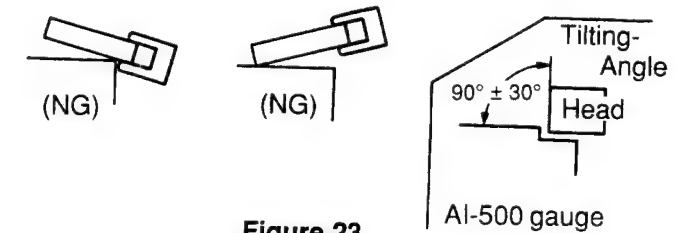


Figure 23

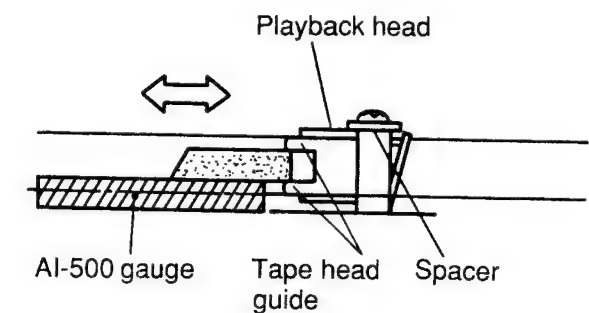
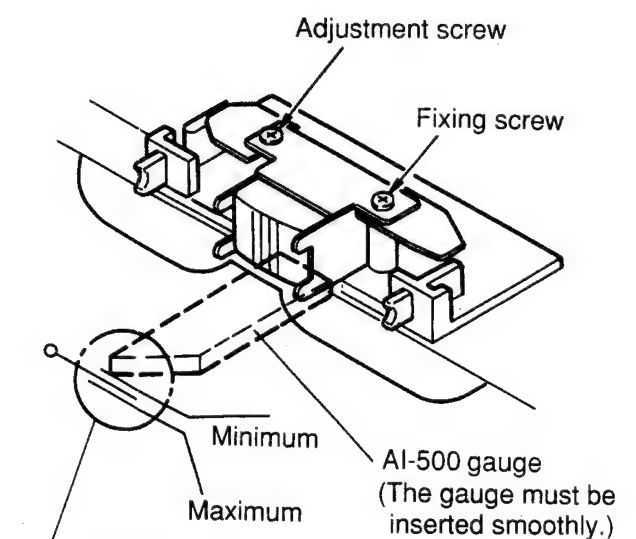


Figure 24

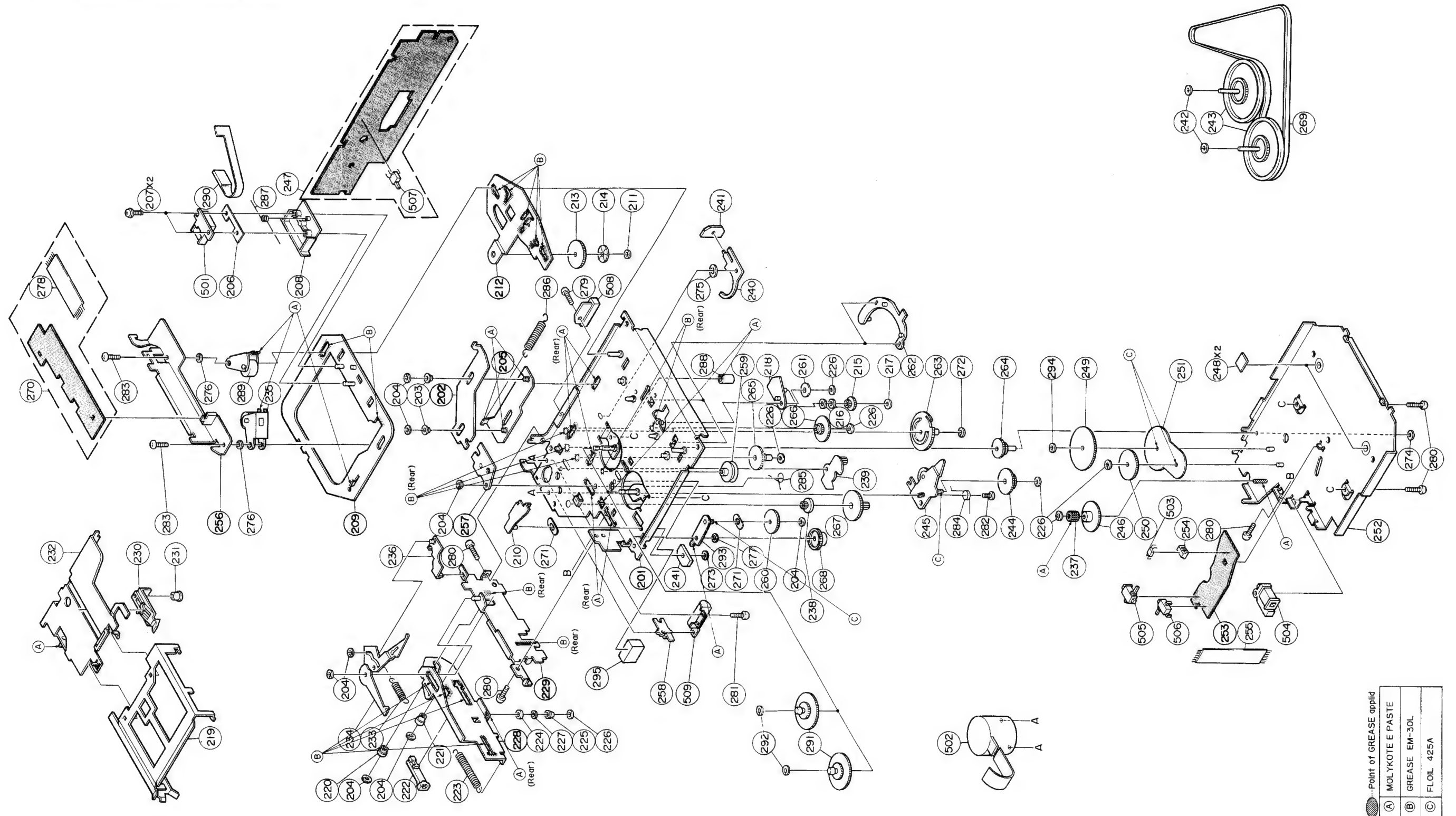


The nosepiece of the gauge must be between the minimum and maximum positions.

Figure 25

Exploded View (1/3)

● For GR75E010/01A/01C/020 Models



Point of GREASE applid	
(A)	MOLYKOTE E PASTE
(B)	GREASE EM-30L
(C)	FLOIL 425A

Cassette Deck Assembly Parts List (1/3)

Note: The parts without parts list are not supplied.

Symbol No.	IN-dex	Part No.	Description
203	3-C	43A11072W01	Roller, Sub Head
204		04B41345P01	Washer, Lock(M1.2)
206	2-B	41A10095W01	Spring, Head
207	2-B	03S40019G03	Screw, F-Locks(M2x4)
208	2-B	43B12545W01	Tape, Guide
210	4-C	01A10206W01	Assy., Riv Lever R/F Sol
211	2-D	04B41345P29	Washer, Lock(M2.6)
213	2-D	44A10295W01	Gear, Sensor
214	2-D	14A10681W01	Reflector
215	3-E	44A10142W01	Gear, Planet
216	3-E	41A10097W02	Spring, Clutch
217	3-E	04B41345P35	Washer, Lock(M1.7)
218	3-E	01A21853W01	Assy., Riv Lever Reverse
219	4-B	07B10074W01	Holder, Cassette
220	5-B	43A12583W01	Roller, Eject
221	5-C	43A63281F01	Roller, Plate Base
222	5-C	44A82206F01	Rack
223	5-C	41B10386W03	Spring, GR(Rack)
224	4-C	43A10121W01	Roller, Eject A
225	4-D	43A10360W01	Roller, Eject B
226		04B41345P11	Washer, Lock(M1.2)
227	4-D	43A12377W01	Roller, Eject C
230	4-A	45B10376W01	Slider
231	4-B	47A63278F01	Shaft, Slider
232	4-A	01A10212W01	Assy., Riv Plate Base
233	4-C	41B10386W01	Spring, Eject Arm
234	4-B	01A10148W01	Assy., Riv Eject Arm A
235	3-B	01B10381W02	Assy., Pinch Roller
236	4-C	45A10087W01	Lever Pack In SW
237	4-F	44A12975W01	Pinion, Eject
238	4-E	44A13617W01	Gear, Motor Idler(B)
239	3-E	01A10201W02	Assy., Riv Lever Pause
240	2-D	45A10092W01	Lever, Play
241		76T10374W01	Chip
242	1-G	04S40075G05	Washer Polyslider (M2.1)
243	1-G	01A10368W01	Assy., Flywheel
244	3-F	44A10141W01	Gear, Eject Idler
245	3-E	01A10205W01	Assy., Riv Lever Clutch A
246	3-F	44A10145W01	Gear, Eject
247	2-B	01V11500W18	Assy., GR Control P.C. Board

Symbol No.	IN-dex	Part No.	Description
248	3-G	43A90918F01	Spacer, Polyslider
249	3-F	44A11063W01	Gear, Bottom A
250	3-F	44A11064W01	Gear, Bottom B
251	3-G	34A11122W02	Washer, GR
252	3-H	01A10210W02	Assy., Riv. Cover Bottom
254	3-G	15B11085W01	Guide, Photo
255	4-G	30T15126W01	Wire, PC Sensor(7P)
258	4-D	45A10101W01	Lever, Eject Sol
259	3-D	49A10131W01	Pulley, Idler
260	4-E	44A10133W01	Gear, Take Up
261	3-E	44A10134W01	Gear, Sun
262	3-E	44B10135W01	Gear, Fix
263	3-E	44B10136W01	Gear, Pause
264	3-F	44A10137W01	Gear, Pause Idler A
265	3-D	44A10379W01	Gear, Pause Idler B
266	3-E	44A10138W01	Gear, Reverse Idler
267	3-E	44A10139W01	Gear, Motor Idler
268	4-E	44A11062W01	Gear, Reel Idler
269	1-G	42A10380W01	Belt, GR
270	3-A	01V14700W68	Assy., GR Audio P.C. Board
270	3-A	01V11500W19	Assy., GR Audio P.C. Board
270	3-A	01V11500W19	Assy., GR Audio P.C. Board
270	3-A	01V11500W19	Assy., GR Audio P.C. Board
271	4-D	41A10097W02	Spring, Clutch
272	3-F	04B41345P15	Washer, Lock(M1.2)
273	4-D	04B41345P02	Washer, Lock(M1.7)
274	3-H	04B41345P17	Washer, Lock(M1)
275	2-D	04B41345P30	Washer, Lock(M3.1)
276	3-B	04B41345P32	Washer, Lock(M3.1)
277	4-E	04B41345P06	Washer, Lock(M2.1)
278	2-A	30T15126W02	Wire, PC Joint 7P
279	2-D	03S44205G78	Screw, Pan(M2x6)
280		03S44205G30	Screw, Pan(M2.6x4)
281	4-D	03S72235F38	Screw, Pan(M2x3.3)
282	3-F	03A12132W02	Screw, Eject Clutch (M2x2.3)
283		03S43997P64	Screw, Pan(M1.7x3)
284	3-F	41A10384W01	Spring, Eject Clutch
285	3-E	41A10385W01	Spring, Cas Push
286	2-C	41B10386W02	Spring, Sub Head
287	2-B	41A10387W01	Spring, Pinch Roller
288	3-D	43A12719W01	Roller, Pause

Symbol No.	IN-dex	Part No.	Description
289	3-B	01B10381W01	Assy., Pinch Roller
290	2-B	84T10387W01	Head P.C. Board
291	4-E	01T15164W01	Assy., Reel
291	4-E	01T15164W01	Assy., Reel
291	4-E	01T15164W02	Assy., Reel
291	4-E	01T15164W01	Assy., Reel
292	4-E	04B41345P12	Washer, Lock(M1.7)
293	4-D	01A11078W01	Assy., Riv Lever Take Up
293	4-D	01A11078W01	Assy., Riv Lever Take Up
293	4-D	01A11078W01	Assy., Riv Lever Take Up
293	4-D	01A30161W01	Assy., Riv Lever Take Up
294	3-F	04B41345P34	Washer, Lock(M1.2)
295	4-D	75S12196W88	Rubber, Pad
Miscellaneous			
501	2-B	88T15971W01	Head
501	2-B	88T10373W01	Head
501	2-B	88T10373W01	Head
501	2-B	88T10373W01	Head
502	4-E	01V11500W64	Assy., Motor
503	3-G	51T15144W01	Sensor, Photo
504	4-G	01T10371W01	R/F Sol. Assy.
505	4-F	40T15382W01	SW., Detector (Pack Down)
506	4-G	40T15382W01	SW., Detector(Metal)
507	2-C	40T15222W01	SW., Detector (Pack In)
508	2-D	01T15249W01	Assy., Play Solenoid
509	4-D	01T10369W02	Assy., Eject Solenoid

Notes : ● ; For GR75E020 model only ■ ; For GR75E010 model only
▲ ; For GR75E01A model only ○ ; For GR75E01C model only

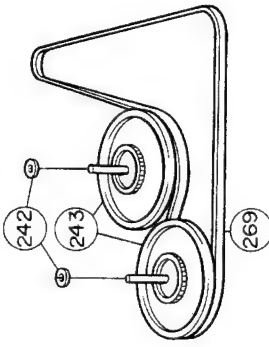
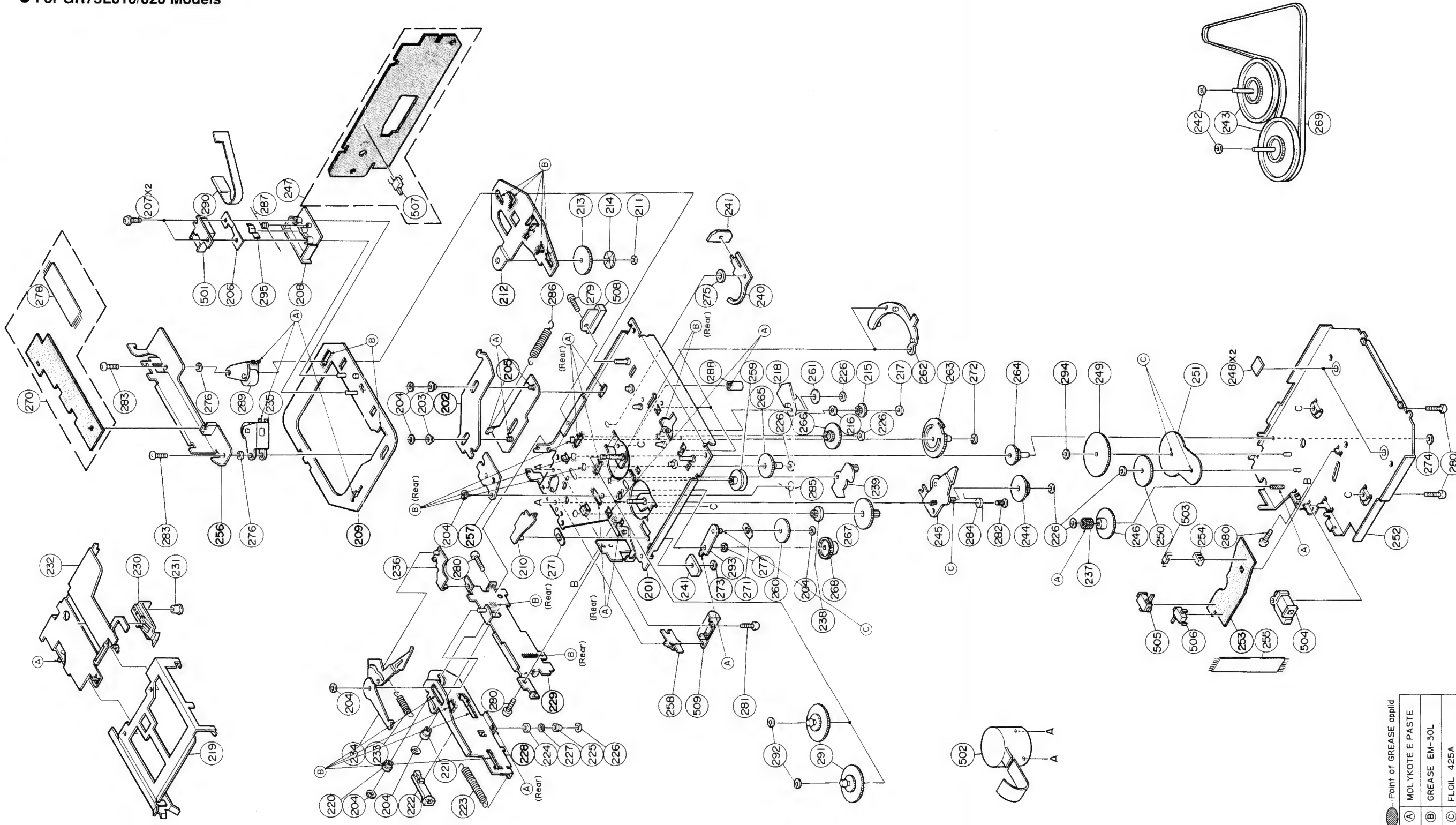
Others ; Common

Notes : ● ; For GR75E020 model only ■ ; For GR75E010 model only
▲ ; For GR75E01A model only ○ ; For GR75E01C model only

Others ; Common

Exploded View (2/3)

● For GR75L010/020 Models



Point of GREASE applid

(A)	MOLYKOTE E PASTE
(B)	GREASE EM-30L
(C)	FLOIL 425A

Cassette Deck Assembly Parts List (2/3)

Note: The parts without parts list are not supplied.

Symbol No.	IN-dex	Part No.	Description
203	3-C	43A11072W01	Roll, Sub Head
204		04B41345P01	Washer, Lock(M1.2)
206	2-B	41A21671W01	Spring, Head
207	2-B	03S40019G03	Screw, F-Locks(M2x4)
208	2-B	43B12545W01	Tape, Guide
210	4-C	01A10206W01	Assy., Riv Lever R/F Sol.
211	2-D	04B41345P29	Washer, Lock(M2.6)
213	2-D	44A10295W01	Gear, Sensor
214	2-D	14A10681W01	Reflector
215	3-E	44A10142W01	Gear, Planet
216	3-E	41A10097W02	Spring, Clutch
217	3-E	04B41345P31	Washer, Lock(M1.7)
218	3-E	01A21853W01	Assy., Riv Lever Reverse
219	4-B	07B10074W01	Holder, Cassette
220	5-B	43A12583W01	Roller, Eject
221	5-C	43A22153W01	Roller, Plate Base
222	5-C	44A82206F01	Rack
223	5-C	41B10386W03	Spring, GR(Rack)
224	4-C	43A10121W01	Roller, Eject(A)
225	4-D	43A10360W01	Roller, Eject(B)
226		04B41345P11	Washer, Lock(M1.2)
227	4-D	43A12377W01	Roller, Eject(C)
230	4-A	45B10376W01	Slider
231	4-B	47A63278F01	Shaft, Slider
232	4-A	01A10212W01	Assy., Riv Plate Base
233	4-C	41B10386W01	Spring, Eject Arm
234	4-B	01A21754W01	Assy., Riv Eject Arm(A)
235	3-B	01B10381W02	Assy., Pinch Roller
236	4-C	45A10087W01	Lever, Pack In SW.
237	4-F	44A20314W01	Pinion, Eject
238	4-E	44A13617W01	Gear, Motor Idler(B)
239	3-E	01A10201W02	Assy., Riv Lever Pause
240	2-D	45A10092W01	Lever, Play
241		76T10374W01	Chip
242	1-G	04S40075G05	Washer, Polyslider (M2.1)
243	1-G	01A10388W01	Assy., Flywheel
244	3-F	44A10141W02	Gear, Eject Idler
245	3-E	01A10205W02	Assy., Riv Lever Clutch(A)
246	3-F	44A10145W01	Gear, Eject
247	2-B	01V23700W03	Assy., GR Control P.C. Board

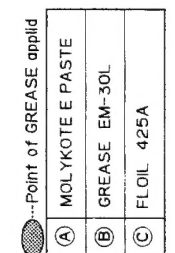
Notes: ★: For GR75L010 model only ◆: For GR75L020 model only
Others: Common

Symbol No.	IN-dex	Part No.	Description
248	3-G	43A90918F01	Spacer, Polyslider
249	3-F	44A11063W01	Gear, Bottom(A)
250	3-F	44A11064W01	Gear, Bottom(B)
251	3-G	34A11122W02	Washer, GR
252	3-H	01A10210W02	Assy., Riv. Cover Bottom
254	3-G	15B11065W01	Guide, Photo
255	4-G	30T15126W01	Wire, PC Sensor(7P)
258	4-D	45A10101W01	Lever, Eject Sol.
259	3-D	49A10131W01	Pulley, Idler
260	4-E	44A10133W01	Gear, Take Up
261	3-E	44A10134W01	Gear, Sun
262	3-E	44B10135W01	Gear, Fix
263	3-E	44B21670W01	Gear, Pause
264	3-F	44A10137W01	Gear, Pause Idler(A)
265	3-D	44A10379W01	Gear, Pause Idler(B)
266	3-E	44A10138W01	Gear, Reverse Idler
267	3-E	44A10139W01	Gear, Motor Idler
268	4-E	44A11062W01	Gear, Reel Idler
269	1-G	42A10380W01	Belt, GR
★ 270	3-A	01V11500W19	Assy., GR Audio P.C. Board
◆ 270	3-A	01V14700W68	Assy., GR Audio P.C. Board
271		41A10097W02	Spring, Clutch
272	3-F	04B41345P15	Washer, Lock(M1.2)
273	4-D	04B41345P02	Washer, Lock(M1.7)
274	3-H	04B41345P17	Washer, Lock(M1)
275	2-D	04B41345P30	Washer, Lock(M3.1)
276	3-B	04B41345P32	Washer, Lock(M3.1)
277	4-E	04B41345P06	Washer, Lock(M2.1)
278	2-A	30T15126W02	Wire, PC Joint 7P
279	2-D	03S44205G78	Screw, Pan(M2x6)
280		03S44205G30	Screw, Pan(M2.6x4)
281	4-D	03S72235F38	Screw, Pan(M2x3.3)
282	3-F	03A12132W02	Screw, Eject Clutch (M2x2.3)
283		03S43997P64	Screw, Pan(M1.7x3)
284	3-F	41A10384W01	Spring, Eject Clutch
285	3-E	41A10385W01	Spring, Cas. Push
286	2-C	41B10386W02	Spring, Sub Head
287	2-B	41A10387W01	Spring, Pinch Roller
288	3-D	43A12719W01	Roller, Pause
289	3-B	01B10381W01	Assy., Pinch Roller
290	2-B	84T10367W01	Head P.C. Board

Symbol No.	IN-dex	Part No.	Description
291	4-E	01T15164W03	Assy., Reel
292	4-E	04B41345P12	Washer, Lock(M1.7)
293	4-D	01A11078W01	Assy., Riv Lever Take Up
294	3-F	04B41345P34	Washer, Lock(M1.2)
295	2-B	26A20537W01	Shield, Plate
Miscellaneous			
★ 501	2-B	88T10373W01	Head
◆ 501	2-B	88T15971W01	Head
502	4-E	01V23900W60	Assy., Motor
503	3-G	51T15144W01	Sensor, Photo
504	4-G	01T10371W01	R/F Sol. Assy
505	4-F	40T15382W01	SW., Detector (Pack Down)
506	4-G	40T15382W01	SW., Detector (Metal)
507	2-C	40T15222W01	SW., Detector (Pack In)
508	2-D	01T15249W01	Assy., Play Solenoid
509	4-D	01T10369W02	Assy., Eject Solenoid

Notes: ★: For GR75L010 model only ◆: For GR75L020 model only
Others: Common

● For GR75L02Y Model



Cassette Deck Assembly Parts List (GR-Y Series) (3/3)

Note: The parts without parts list are not supplied.

Symbol No.	IN-dex	Part No.	Description
203	3-C	43A11072W01	Roll. Sub Head
204		04B41345P01	Washer. Lock(M1.2)
206	2-B	41A21671W01	Spring. Head
207	2-B	03S40019C03	Screw. F-Locks(M2x4)
208	2-B	43B12545W01	Tape. Guide
210	4-C	01A10206W01	Assy.. Riv Lever R/F Sol.
211	2-D	04B41345P38	Washer. Lock(M2.6)
213	2-D	44A10295W01	Gear. Sensor
214	2-D	14A10681W01	Reflector
215	3-E	44A10142W01	Gear. Planet
216		41A10097W02	Spring. Clutch
217	3-E	04B41345P31	Washer. Lock(M1.7)
218	3-E	01A21853W01	Assy.. Riv Lever Reverse
219	4-B	07B10074W01	Holder. Cassette
220	5-B	43A12583W01	Roller. Eject
221	5-C	43A63281F01	Roller. Plate Base
222	5-C	44A82206F01	Rack
223	5-C	41B10386W03	Spring. GR(Rack)
224	4-C	43A10121W01	Roller. Eject(A)
225	4-D	43A10360W01	Roller. Eject(B)
226		04B41345P11	Washer. Lock(M1.2)
227	4-D	43A12377W01	Roller. Eject(C)
230	4-A	45B10376W01	Slider
231	4-B	47A63278F01	Shaft. Slider
232	4-A	01A10212W01	Assy.. Riv Plate Base
233	4-C	41B10386W01	Spring. Eject Arm
234	4-B	01A21754W01	Assy.. Riv Eject Arm(A)
235	3-B	01B10381W02	Assy.. Pinch Roller
236	4-C	45A10087W01	Lever. Pack In SW.
237	4-F	44A20314W01	Pinion. Eject
238	4-E	44A13617W01	Gear. Motor Idler(B)
239	3-E	01A10201W02	Assy.. Riv Lever Pause
240	2-D	01A30879W01	Assy.. Riv. Play Sol.
241		76T10374W01	Chip
242	1-G	04S40075C05	Washer. Polyslider (M2.1)
243	1-G	01A10368W01	Assy.. Flywheel
244	3-F	44A10141W01	Gear. Eject Idler
245	3-E	01A10205W02	Assy.. Riv Lever Clutch(A)
246	3-F	44A10145W01	Gear. Eject
247	2-B	01V23700W04	Assy.. GR Control P.C. Board

Symbol No.	IN-dex	Part No.	Description
248	3-G	43A90918F01	Spacer. Polyslider
249	3-F	44A11063W01	Gear. Bottom(A)
250	3-F	44A11064W01	Gear. Bottom(B)
251	3-G	34A11122W02	Washer. GR
252	3-H	01A10210W02	Assy.. Riv. Cover Bottom
254	3-G	15B11065W01	Guide. Photo
255	4-G	30T15126W01	Wire. PC Sensor(7P)
258	4-D	45A10101W01	Lever. Eject Sol.
259	3-D	49A10131W01	Pulley. Idler
260	4-E	44A10133W01	Gear. Take Up
261	3-E	44A10134W01	Gear. Sun
262	3-E	44B10135W01	Gear. Fix
263	3-E	44B21670W01	Gear. Pause
264	3-F	44A10137W01	Gear. Pause Idler(A)
265	3-D	44A10379W01	Gear. Pause Idler(B)
266	3-E	44A10138W01	Gear. Reverse Idler
267	3-E	44A10139W01	Gear. Motor Idler
268	4-E	44A11062W01	Gear. Reel Idler
269	1-G	42A10380W01	Belt. GR
270	3-A	01V33300W03	Assy.. GR Audio P.C. Board
272	3-F	04B41345P15	Washer. Lock(M1.2)
273		04B41345P02	Washer. Lock(M1.7)
274	3-H	04B41345P17	Washer. Lock(M1)
275	2-D	04B41345P30	Washer. Lock(M3.1)
276	3-B	04B41345P32	Washer. Lock(M3.1)
277	4-E	04B41345P37	Washer. Lock(M2.1)
278	2-A	30T15126W02	Wire. PC Joint 7P
279	2-D	03S44205G78	Screw. Pan(M2x6)
280		03S44205C30	Screw. Pan(M2.6x4)
281	4-D	03S72235F38	Screw. Pan(M2x3.3)
282	3-F	03A12132W02	Screw. Eject Clutch (M2x2.3)
283		03S43997P64	Screw. Pan(M1.7x3)
284	3-F	41A10384W01	Spring. Eject Clutch
285	3-E	41A10385W01	Spring. Cas. Push
286	2-C	41B10386W02	Spring. Sub Head
287	2-B	41A10387W01	Spring. Pinch Roller
288	3-D	43A12719W01	Roller. Pause
289	3-B	01B10381W01	Assy.. Pinch Roller
290	2-B	84T35271W01	Head P.C. Board

Symbol No.	IN-dex	Part No.	Description
291	4-E	01T15164W03	Assy.. Reel
292	4-E	04B41345P12	Washer. Lock(Ml.7)
293	4-D	01A30161W01	Assy.. Riv Lever Take Up
294	3-F	04B41345P34	Washer. Lock(Ml.2)
295	2-B	26A20537W01	Shield. Plate
Miscellaneous			
501	2-B	88T15971W01	Head
502	4-E	01V23900W60	Assy.. Motor
503	3-G	51T15144W01	Sensor. Photo
504	4-G	01T10371W01	R/F Sol. Assy
505	4-F	40T15382W01	SW.. Detector (Pack Down)
506	4-G	40T15382W01	SW.. Detector (Metal)
507	2-C	40T15222W01	SW.. Detector (Pack In)
508	2-D	01T15249W01	Assy.. Play Solenoid
509	4-D	01T10369W02	Assy.. Eject Solenoid